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TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	AUG 06	CAS REGISTRY enhanced with new experimental property tags
NEWS	3	AUG 06	FSTA enhanced with new thesaurus edition
NEWS	4	AUG 13	CA/CAPplus enhanced with additional kind codes for granted patents
NEWS	5	AUG 20	CA/CAPplus enhanced with CAS indexing in pre-1907 records
NEWS	6	AUG 27	Full-text patent databases enhanced with predefined patent family display formats from INPADOCDB
NEWS	7	AUG 27	USPATOLD now available on STN
NEWS	8	AUG 28	CAS REGISTRY enhanced with additional experimental spectral property data
NEWS	9	SEP 07	STN AnaVist, Version 2.0, now available with Derwent World Patents Index
NEWS	10	SEP 13	FORIS renamed to SOFIS
NEWS	11	SEP 13	INPADOCDB enhanced with monthly SDI frequency
NEWS	12	SEP 17	CA/CAPplus enhanced with printed CA page images from 1967-1998
NEWS	13	SEP 17	Caplus coverage extended to include traditional medicine patents
NEWS	14	SEP 24	EMBASE, EMBAL, and LEMBASE reloaded with enhancements
NEWS	15	OCT 02	CA/CAPplus enhanced with pre-1907 records from Chemisches Zentralblatt
NEWS	16	OCT 19	BEILSTEIN updated with new compounds
NEWS	17	NOV 15	Derwent Indian patent publication number format enhanced
NEWS	18	NOV 19	WPIX enhanced with XML display format
NEWS	19	NOV 30	ICSD reloaded with enhancements
NEWS	20	DEC 04	LINPADOCDB now available on STN
NEWS	21	DEC 14	BEILSTEIN pricing structure to change
NEWS	22	DEC 17	USPATOLD added to additional database clusters
NEWS	23	DEC 17	IMSDRUGCONF removed from database clusters and STN
NEWS	24	DEC 17	DGENE now includes more than 10 million sequences
NEWS	25	DEC 17	TOXCENTER enhanced with 2008 MeSH vocabulary in MEDLINE segment
NEWS	26	DEC 17	MEDLINE and LMEDLINE updated with 2008 MeSH vocabulary
NEWS	27	DEC 17	CA/CAPplus enhanced with new custom IPC display formats
NEWS	28	DEC 17	STN Viewer enhanced with full-text patent content from USPATOLD

NEWS EXPRESS 19 SEPTEMBER 2007: CURRENT WINDOWS VERSION IS V8.2, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 19 SEPTEMBER 2007.

NEWS HOURS STN Operating Hours Plus Help Desk Availability

NEWS LOGIN Welcome Banner and News Items

NEWS IPC8 For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 16:47:48 ON 02 JAN 2008

=> file reg		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 16:48:06 ON 02 JAN 2008
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2008 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 1 JAN 2008 HIGHEST RN 959833-82-0
DICTIONARY FILE UPDATES: 1 JAN 2008 HIGHEST RN 959833-82-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

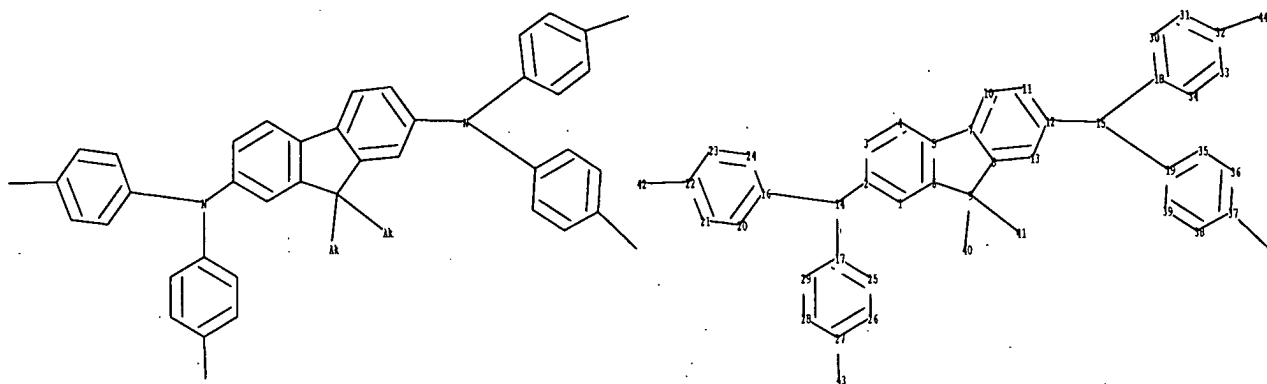
TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

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Uploading C:\Program Files\Stnexp\Queries\10579215.str



chain nodes :

14 15 40 41 42 43 44 45

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 16 17 18 19 20 21 22 23 24 25
26 27 28 29 30 31 32 33 34 35 36 37 38 39

chain bonds :

2-14 9-40 9-41 12-15 14-16 14-17 15-18 15-19 22-42 27-43 32-44 37-45

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 7-10 8-9 8-13 10-11 11-12 12-13
16-20 16-24 17-25 17-29 18-30 18-34 19-35 19-39 20-21 21-22 22-23 23-24
25-26 26-27 27-28 28-29 30-31 31-32 32-33 33-34 35-36 36-37 37-38 38-39

exact/norm bonds :

2-14 5-7 6-9 8-9 9-40 9-41 12-15 14-16 14-17 15-18 15-19

exact bonds :

22-42 27-43 32-44 37-45

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-10 8-13 10-11 11-12 12-13 16-20 16-24
17-25 17-29 18-30 18-34 19-35 19-39 20-21 21-22 22-23 23-24 25-26 26-27
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Match level :

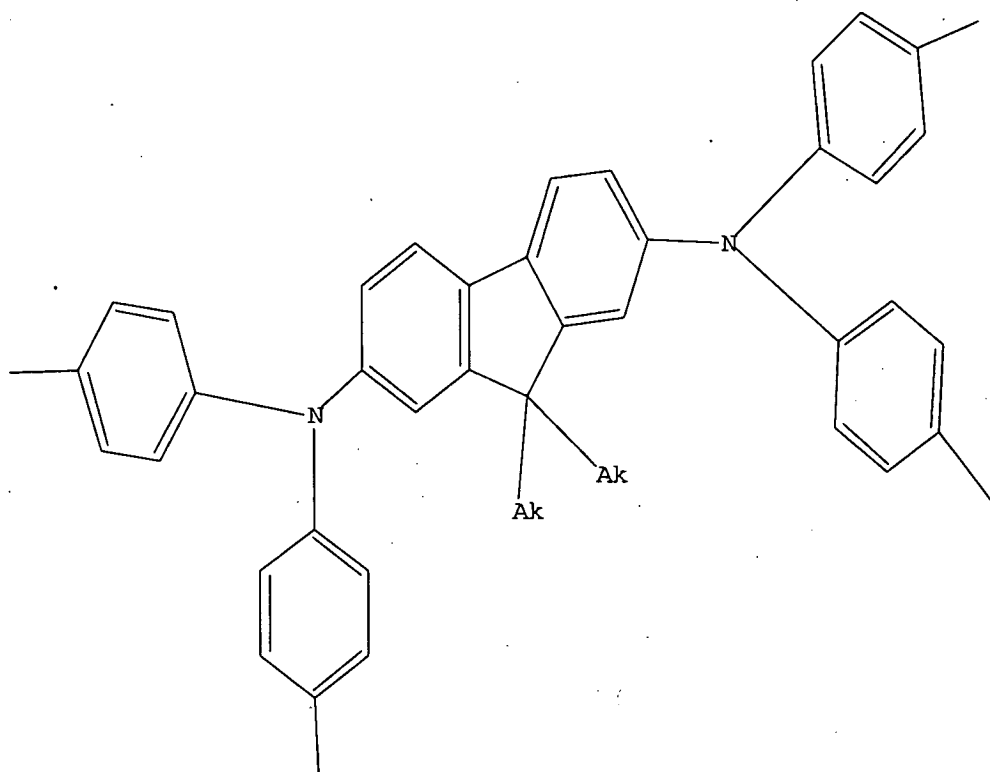
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20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom
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L1 STRUCTURE UPLOADED

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L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

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FULL SCREEN SEARCH COMPLETED - 12387 TO ITERATE
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26 ANSWERS

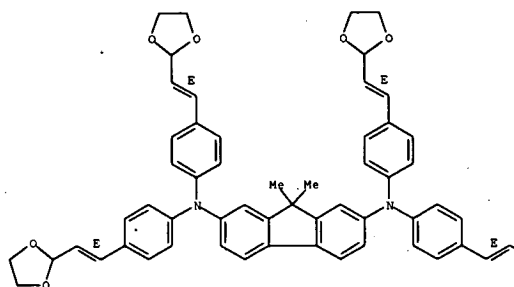
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L2 26 SEA SSS FUL L1
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 RN 925452-76-2 REGISTRY
 ED Entered STN: 07 Mar 2007
 CN 9H-Fluorene-2,7-diamine, N2,N2,N7,N7-tetrakis[4-[(1E)-2-(1,3-dioxolan-2-yl)ethenyl]phenyl]-9,9-dimethyl- (CA INDEX NAME)
 FS STEREOSEARCH
 MF C59 H56 N2 O8
 SR CA
 LC STN Files: CA, CAPLUS

Double bond geometry as shown.

PAGE 1-A



L2 ANSWER 1 OF 26 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-B



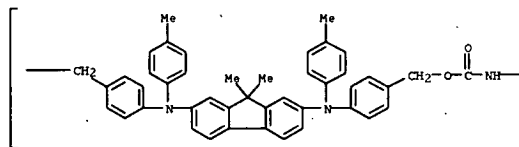
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 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

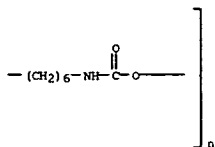
L2 ANSWER 2 OF 26 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 884657-43-6 REGISTRY
 ED Entered STN: 17 May 2006
 CN Poly[oxy-carbonylimino-1,6-hexanediyliminocarbonyloxymethylene-1,4-phenylene[(4-methylphenyl)imino]-(9,9-dimethyl-9H-fluorene-2,7-diyl)][(4-methylphenyl)imino]-1,4-phenylenemethylene (9CI) (CA INDEX NAME)
 MF (C51 H52 N4 O4)n
 CI PMS
 PCT Polyamine, Polyurethane
 SR CA
 LC STN Files: CA, CAPLUS

RELATED POLYMERS AVAILABLE WITH POLYLINK

PAGE 1-A



PAGE 1-B



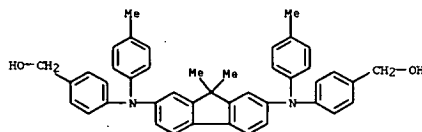
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 RN 884657-35-6 REGISTRY
 ED Entered STN: 17 May 2006
 CN Benzenemethanol, 4,4'-[[(9,9-dimethyl-9H-fluorene-2,7-diyl)bis[(4-methylphenyl)imino]]bis-, polymer with 1,6-diisocyanatohexane (9CI) (CA INDEX NAME)
 MF (C43 H40 N2 O2 . C8 H12 N2 O2)x
 CI PMS
 PCT Polyamine, Polyurethane, Polyurethane formed
 SR CA
 LC STN Files: CA, CAPLUS

RELATED POLYMERS AVAILABLE WITH POLYLINK

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CRN 884657-34-5
 CHF C43 H40 N2 O2



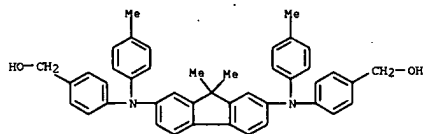
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CRN 822-06-0
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OCN-(CH2)6-NCO

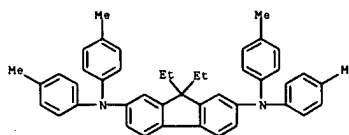
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L2 ANSWER 4 OF 26 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 884657-34-5 REGISTRY
 ED Entered STN: 17 May 2006
 CN Benzenemethanol, 4,4'-[(9,9-dimethyl-9H-fluorene-2,7-diyl)bis[(4-methylphenyl)imino]]bis- (9CI) (CA INDEX NAME)
 MF C43 H40 N2 O2
 CI COM
 SR CA



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

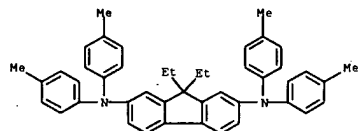
L2 ANSWER 5 OF 26 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 862080-32-8 REGISTRY
 ED Entered STN: 30 Aug 2005
 CN 9H-Fluorene-2,7-diamine, 9,9-diethyl-N,N',N'-tetrakis(4-methylphenyl)-, radical ion(2+) (9CI) (CA INDEX NAME)
 MF C45 H44 N2
 CI RIS
 SR CA
 LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 6 OF 26 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 862012-65-5 REGISTRY
 ED Entered STN: 29 Aug 2005
 CN 9H-Fluorene-2,7-diamine, 9,9-diethyl-N,N',N'-tetrakis(4-methylphenyl)-, radical ion(1+) (9CI) (CA INDEX NAME)
 MF C45 H44 N2
 CI RIS
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 LC STN Files: CA, CAPLUS



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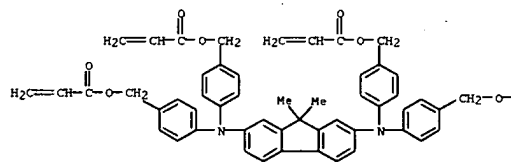
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L2 ANSWER 7 OF 26 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 720712-43-6 REGISTRY
 ED Entered STN: 02 Aug 2004
 CN 2-Propenoic acid, (9,9-dimethyl-9H-fluorene-2,7-diyl)bis[nitrilobis(4,1-phenylenemethylene)] ester, homopolymer (9CI) (CA INDEX NAME)
 MF C55 H48 N2 O8
 CI PMS
 PCT Polyacrylic
 SR CA
 LC STN Files: CA, CAPLUS

CH 1

CRN 720712-42-5
 CHF C55 H48 N2 O8

PAGE 1-A



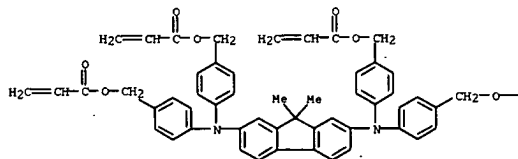
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L2 ANSWER 8 OF 26 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 720712-42-5 REGISTRY
 ED Entered STN: 02 Aug 2004
 CN 2-Propenoic acid, (9,9-dimethyl-9H-fluorene-2,7-diyl)bis[nitrilobis(4,1-phenylenemethylene)] ester (9CI) (CA INDEX NAME)
 MF C55 H48 N2 O8
 CI COM
 SR CA

PAGE 1-A



PAGE 1-B



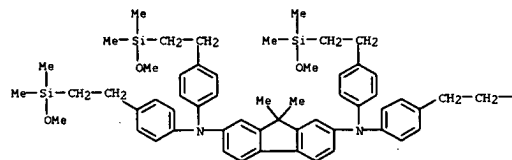
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L2 ANSWER 9 OF 26 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 660850-24-8 REGISTRY
 ED Entered STN: 10 Mar 2004
 CN 9H-Fluorene-2,7-diamine, N,N,N',N'-tetrakis[4-(2-methoxydimethylsilyl)ethyl]phenyl]-9,9-dimethyl-, homopolymer (9CI) (CA INDEX NAME)
 MF (C59 H80 N2 O4 Si4)x
 CI PMS
 PCT Polyether, Polyether only
 SR CA
 LC STN Files: CA, CAPLUS

CH 1

CRN 660850-23-7
 CMF C59 H80 N2 O4 Si4

PAGE 1-A



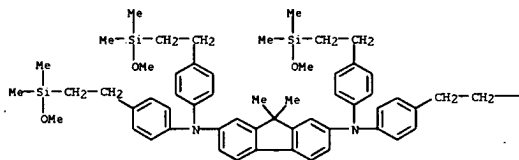
PAGE 1-B



1 REFERENCES IN FILE CA (1907 TO DATE)
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L2 ANSWER 10 OF 26 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 660850-23-7 REGISTRY
 ED Entered STN: 10 Mar 2004
 CN 9H-Fluorene-2,7-diamine, N,N,N',N'-tetrakis[4-(2-methoxydimethylsilyl)ethyl]phenyl]-9,9-dimethyl- (9CI) (CA INDEX NAME)
 MF C59 H80 N2 O4 Si4
 CI COM
 SR CA
 LC STN Files: CA, CAPLUS

PAGE 1-A



PAGE 1-B

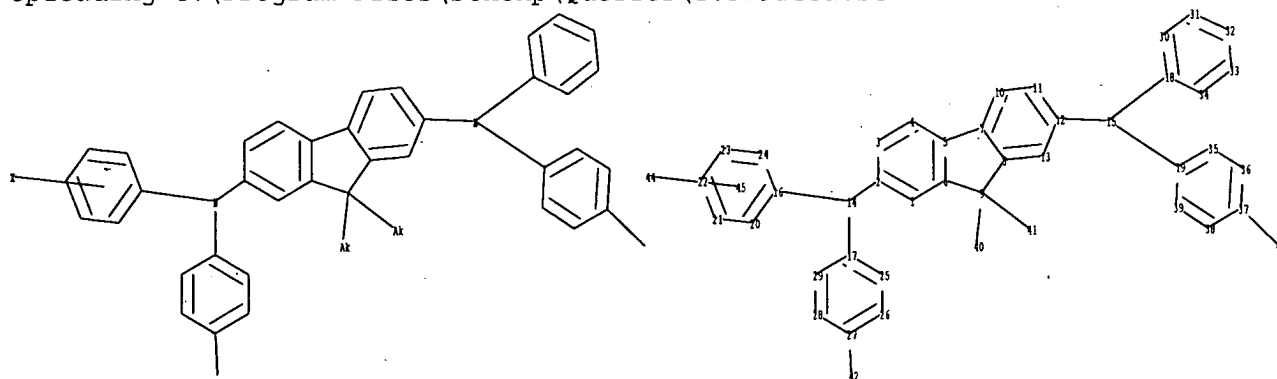


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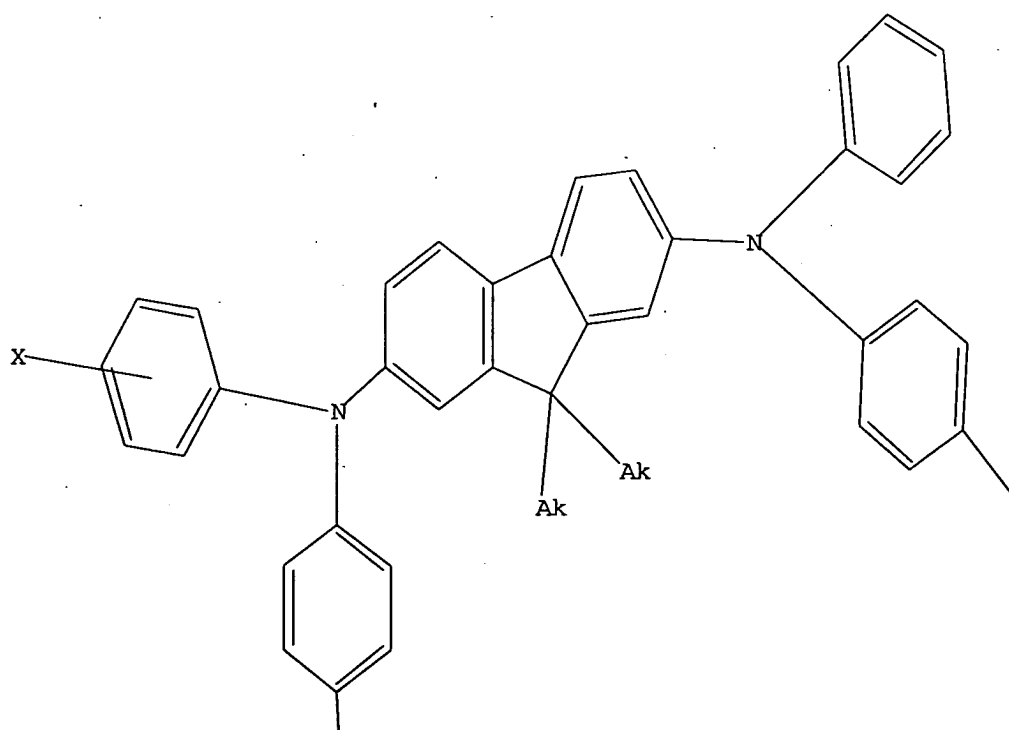
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ring nodes :

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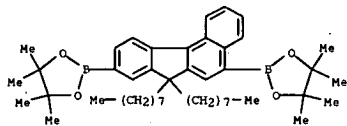
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L3 STR



L4 ANSWER 1 OF 11 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 936947-26-1 REGISTRY
 ED Entered STN: 11 Jun 2007
 CN 9H-Fluorene-2,7-diamine, N2,N7-bis(4-bromophenyl)-N2,N7-bis(4-methylphenyl)-9,9-dioctyl-, polymer with 5,9-dibromo-7,7-dioctyl-7H-benzo[c]fluorene and 2,2'-(7,7-dioctyl-7H-benzo[c]fluorene-5,9-diyl)bis[4,4,5,5-tetramethyl-1,3,2-dioxaborolane] (CA INDEX NAME)
 MF (C55 H62 Br2 N2 . C45 H66 B2 O4 . C33 H42 Br2)x
 CI PMS
 PCT Polyether, Polyether only
 SR CA
 LC STN Files: CA, CAPLUS

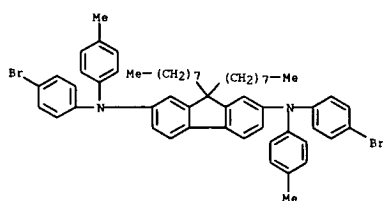
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 CNF C55 H62 Br2 N2



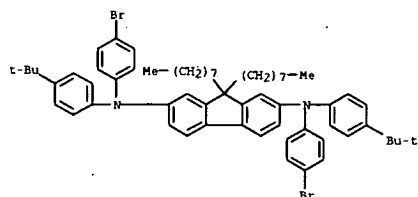
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CRN 794519-14-5
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L4 ANSWER 2 OF 11 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 882567-07-9 REGISTRY
 ED Entered STN: 02 May 2006
 CN 9H-Fluorene-2,7-diamine, N,N'-bis(4-bromophenyl)-N,N'-bis[4-(1,1-dimethylethyl)phenyl]-9,9-dioctyl-, polymer with 2,7-dibromo-9,10-bis[4-(1,1-dimethylethyl)phenyl]-9,10-dihydro-9,10-dimethoxyphenanthrene and 2,2'-(2',3',6',7'-tetrakis(2-methylbutoxy)-9,9'-spirobi[9H-fluorene]-2,7-diyl)bis(1,3,2-dioxaborolane) (9CI) (CA INDEX NAME)
 MF (C61 H74 Br2 N2 . C49 H62 B2 O8 . C36 H38 Br2 O2)x
 CI PMS
 PCT Polyether, Polyether formed, Polyether
 SR CA
 LC STN Files: CA, CAPLUS

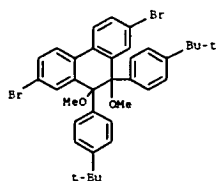
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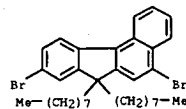
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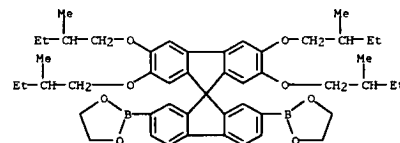
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L4 ANSWER 1 OF 11 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)



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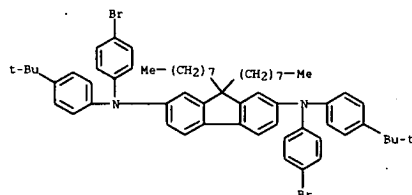


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L4 ANSWER 3 OF 11 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 882567-06-8 REGISTRY
 ED Entered STN: 02 May 2006
 CN 9H-Fluorene-2,7-diamine, N,N'-bis(4-bromophenyl)-N,N'-bis[4-[(1,1-dimethylethyl)phenyl]-9,9-dioctyl-, polymer with 4,7-bis(5-bromo-2-thienyl)-2,1,3-benzothiadiazole, 9-[3,4-bis(2-methylbutoxy)phenyl]-2,7-dibromo-9-(2,5-dimethylphenyl)-9H-fluorene, 2,2'-[[2-[(3,7-dimethyloctyl)oxy]-5-methoxy-1,4-phenylene]di-2,1-ethenediyl]bis[5-bromothiophene] and 2,2'-[2',3',6',7'-tetrakis(2-methylbutoxy)-9,9'-spirobi[9H-fluorene]-2,7-diyl]bis[1,3,2-dioxaborolane] (9CI) (CA INDEX NAME)
 MF (C61 H74 Br2 N2 . C49 H62 B2 O8 . C37 H40 Br2 O2 . C29 H34 Br2 O2 S2 . C14 H6 Br2 N2 S3)x
 CI PMS
 PCT Polyether, Polyether formed, Polyether, Polystyrene, Polyvinyl
 SR CA
 LC STN Files: CA, CAPLUS

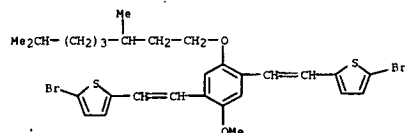
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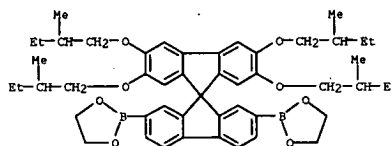
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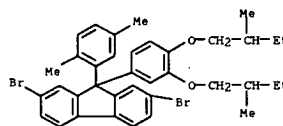
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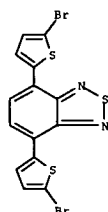
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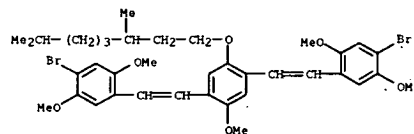


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 MF (C61 H74 Br2 N2 . C49 H62 B2 O8 . C37 H46 Br2 O6 . C37 H40 Br2 O2)x
 CI PMS
 PCT Polyether, Polyether formed, Polyether, Polystyrene
 SR CA
 LC STN Files: CA, CAPLUS

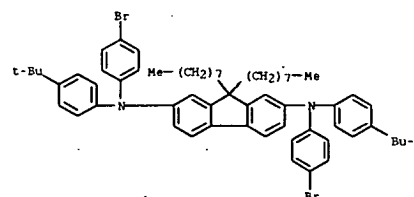
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CRN 868703-46-2
 CMF C37 H46 Br2 O6



CH 2

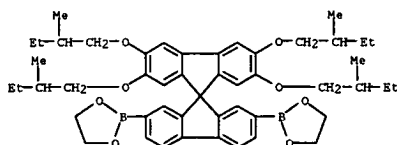
CRN 868703-33-7
 CMF C61 H74 Br2 N2



CH 3

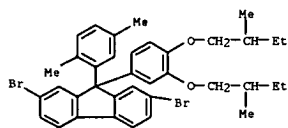
CRN 396123-43-6
 CMF C49 H62 B2 O8

L4 ANSWER 4 OF 11 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)



CM 4

CRN 396123-39-0
CMF C37 H40 Br2 O2



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

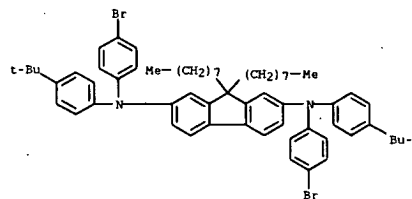
L4 ANSWER 5 OF 11 REGISTRY COPYRIGHT 2008 ACS on STN
RN 868703-45-1 REGISTRY
ED Entered STN: 23 Nov 2005

CM 9H-Fluorene-2,7-diamine, N,N'-bis(4-bromophenyl)-N,N'-bis[4-(1,1-dimethylethyl)phenyl]-9,9-dioctyl-, polymer with 2',7'-bis[2-(4-bromophenyl)ethenyl]-2,3,6,7-tetrakis(2-methylbutoxy)-9,9'-spirobi[9H-fluorene], 9-[3,4-bis(2-methylbutoxy)phenyl]-2,7-dibromo-9-[2,5-dimethylphenyl]-9H-fluorene and 2,2'-(2',3',6',7'-tetrakis(2-methylbutoxy)-9,9'-spirobi[9H-fluorene]-2,7-diyl)bis[1,3,2-dioxaborolane] (9CI) (CA INDEX NAME)

MF (C61 H74 Br2 N2 . C61 H66 Br2 O4 . C49 H62 B2 O8 . C37 H40 Br2 O2)x
CI PMS
PCT Polyether, Polyether formed, Polyether, Polyvinyl
SR CA
LC STN Files: CA, CAPLUS

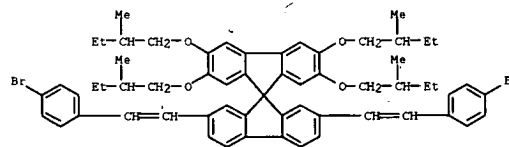
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CRN 868703-33-7
CMF C61 H74 Br2 N2



CM 2

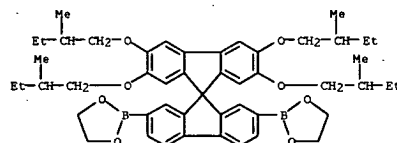
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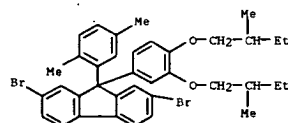
CRN 396123-43-6

L4 ANSWER 5 OF 11 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)
CMF C49 H62 B2 O8



CM 4

CRN 396123-39-0
CMF C37 H40 Br2 O2



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L4 ANSWER 6 OF 11 REGISTRY COPYRIGHT 2008 ACS on STN

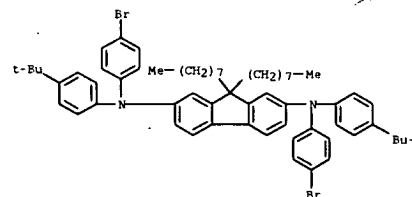
RN 868703-44-0 REGISTRY
ED Entered STN: 23 Nov 2005

CM 9H-Fluorene-2,7-diamine, N,N'-bis(4-bromophenyl)-N,N'-bis[4-(1,1-dimethylethyl)phenyl]-9,9-dioctyl-, polymer with 9,10-dibromoanthracene, 2',7'-dibromo-2,3,6,7-tetrakis(2-methylbutoxy)-9,9'-spirobi[9H-fluorene] and 2,2'-(2',3',6',7'-tetrakis(2-methylbutoxy)-9,9'-spirobi[9H-fluorene]-2,7-diyl)bis[1,3,2-dioxaborolane] (9CI) (CA INDEX NAME)

MF (C61 H74 Br2 N2 . C49 H62 B2 O8 . C45 H54 Br2 O4 . C14 H8 Br2)x
CI PMS
PCT Polyether, Polyether formed, Polyether
SR CA
LC STN Files: CA, CAPLUS

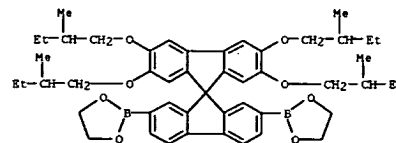
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CRN 868703-33-7
CMF C61 H74 Br2 N2



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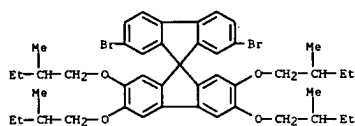
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CMF C49 H62 B2 O8



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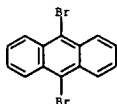
CRN 395059-23-1
CMF C45 H54 Br2 O4

L4 ANSWER 6 OF 11 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)



CH 4

CRN 523-27-3
CHF C14 H8 Br2



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L4 ANSWER 7 OF 11 REGISTRY COPYRIGHT 2008 ACS on STN

RN 868703-43-9 REGISTRY

ED Entered STN: 23 Nov 2005

CN 9H-Fluorene-2,7-diamine, N,N'-bis(4-bromophenyl)-N,N'-bis[4-(1,1-dimethylethyl)phenyl]-9,9-dioctyl-, polymer with 9-[3,4-bis(2-methylbutoxy)phenyl]-2,7-dibromo-9-(2,5-dimethylphenyl)-9H-fluorene and 2,2'-(2',3',6',7'-tetrakis(2-methylbutoxy)-9,9'-spirobi[9H-fluorene]-2,7-diyl)bis[1,3,2-dioxaborolane] (9CI) (CA INDEX NAME)

MF (C61 H74 Br2 N2 . C49 H62 B2 O8 . C37 H40 Br2 O2)x

CI PMS

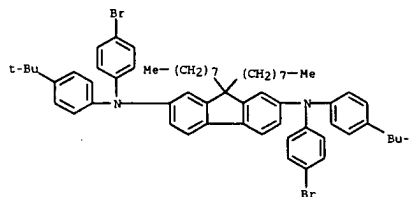
PCT Polyether, Polyether formed, Polyether

SR CA

LC STN Files: CA, CAPLUS

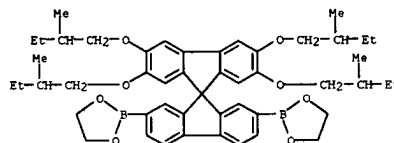
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CHF C61 H74 Br2 N2



CH 2

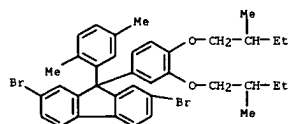
CRN 396123-43-6
CHF C49 H62 B2 O8



CH 3

CRN 396123-39-0
CHF C37 H40 Br2 O2

L4 ANSWER 7 OF 11 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L4 ANSWER 8 OF 11 REGISTRY COPYRIGHT 2008 ACS on STN

RN 868703-42-8 REGISTRY

ED Entered STN: 23 Nov 2005

CN 9H-Fluorene-2,7-diamine, N,N'-bis(4-bromophenyl)-N,N'-bis[4-(1,1-dimethylethyl)phenyl]-9,9-dioctyl-, polymer with 2',7'-dibromo-2,3,6,7-tetrakis(2-methylbutoxy)-9,9'-spirobi[9H-fluorene] and 2,2'-(2',3',6',7'-tetrakis(2-methylbutoxy)-9,9'-spirobi[9H-fluorene]-2,7-diyl)bis[1,3,2-dioxaborolane] (9CI) (CA INDEX NAME)

MF (C61 H74 Br2 N2 . C49 H62 B2 O8 . C45 H54 Br2 O4)x

CI PMS

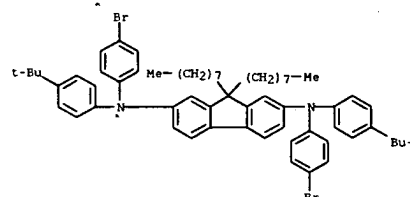
PCT Polyether, Polyether formed, Polyether

SR CA

LC STN Files: CA, CAPLUS

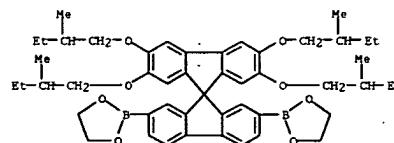
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CRN 868703-33-7
CHF C61 H74 Br2 N2



CH 2

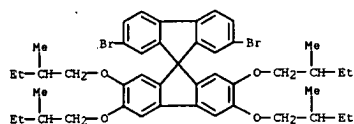
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CH 3

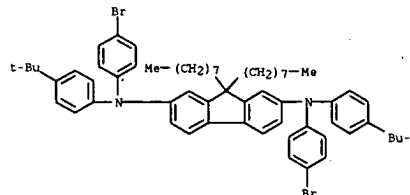
CRN 395059-23-1
CHF C45 H54 Br2 O4

L4 ANSWER 8 OF 11 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)



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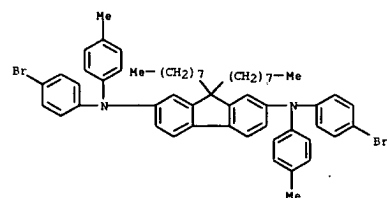
L4 ANSWER 9 OF 11 REGISTRY COPYRIGHT 2008 ACS on STN
RN 668703-33-7 REGISTRY
ED Entered STN: 23 Nov 2005
CN 9H-Fluorene-2,7-diamine, N,N'-bis(4-bromophenyl)-N,N'-bis[4-(1,1-dimethylethyl)phenyl]-9,9-dioctyl- (9CI) (CA INDEX NAME)
MF C61 H74 Br2 N2
CI COM
SR CA
LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

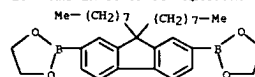
L4 ANSWER 10 OF 11 REGISTRY COPYRIGHT 2008 ACS on STN
RN 852535-49-0 REGISTRY
ED Entered STN: 20 Jun 2005
CN 9H-Fluorene-2,7-diamine, N,N'-bis(4-bromophenyl)-N,N'-bis(4-methylphenyl)-9,9-dioctyl-, polymer with 2,7-dibromo-9,9-bis[4-(hexyloxy)phenyl]-9H-fluorene and 2,2'-(9,9-dioctyl-9H-fluorene-2,7-diyl)bis[1,3,2-dioxaborolane] (9CI) (CA INDEX NAME)
MF (C55 H62 Br2 N2 . C37 H40 Br2 O2 . C33 H48 B2 O4)x
CI PMS
PCT Polyether, Polyether formed, Polyether
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



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CRN 852535-44-5
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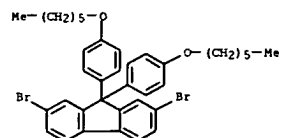
L4 ANSWER 10 OF 11 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

CM 2

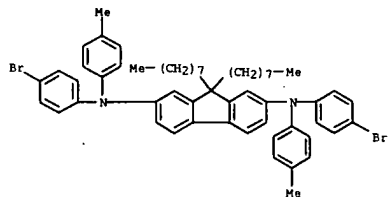
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CMF C37 H40 Br2 O2



CM 3

CRN 210347-49-2
CMF C33 H48 B2 O4

L4 ANSWER 11 OF 11 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 852535-44-5 REGISTRY
 ED Entered STN: 20 Jun 2005
 CN 9H-Fluorene-2,7-diamine, N,N'-bis(4-bromophenyl)-N,N'-bis(4-methylphenyl)-
 9,9-diocetyl- (9CI) (CA INDEX NAME)
 MF C55 H62 Br2 N2
 CI COM
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
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COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
401.94	402.15

FULL ESTIMATED COST

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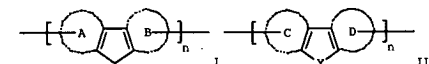
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L5 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2008 ACS ON STN

ACCESSION NUMBER: 2007:564481 CAPLUS
DOCUMENT NUMBER: 146:523130
TITLE: Polymers with good heat resistance and luminescent intensity for electroluminescence elements
INVENTOR(S): Fukushima, Daisuke; Tsubata, Yoshiaki; Anryu, Makoto
PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Japan
SOURCE: PCT Int. Appl., 117pp.
CODEN: PIXX02
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

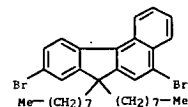
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007058368	A1	20070524	WO 2006-JP323257	20061115
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
JP 2007162009	A	20070628	JP 2006-310009	20061116
PRIORITY APPLN. INFO.:			JP 2005-333759	A 20051118



AB Title polymers comprise 21 repeat unit [Ar2N(Ar1)2N(Ar1)Ar2] and 21 repeat unit selected I and II, wherein Ar1 = aryl or univalent aromatic heterocyclic group; Ar2 = arylene or bivalent aromatic heterocyclic group; and Z = bivalent aromatic group having a fused ring structure; rings A, B = independently aromatic hydrocarbon ring (21 of the rings A and B = aromatic hydrocarbon ring in which 22 benzene rings are fused); R_w, R_x = independently hydrogen atom or alkyl; rings C, D = independently aromatic ring; Y = O, S, or OC(R_k)₂; R_k = H or alkyl. Thus, 0.11 mol 9,10-dibromoanthracene and 0.22 mol N-(4-tert-butylphenyl)aniline were reacted in the presence of 0.27 mmol tris(benzylideneacetone)dipalladium and 9 mmol tri-tert-butylphosphine at 100°, brominated with N-bromosuccinimide to give N,N'-bis[4-(1,1-dimethylethyl)phenyl]-N,N'-bis[4-(bromophenyl)-9,10-anthracenediamine, 0.24 mmol of which was polymerized with 3.76 mmol 5,9-dibromo-7,7-dioctyl-7H-benzo[c]fluorene and 3.96 mmol 2,2'-(7,7-dioctyl-7H-benzo[c]fluorene-5,9-diyl)bis[4,4,5,5-tetramethyl-1,3,2-dioxaborolane] at 105° for 4.5 h in the presence of 2.7 mg palladium acetate, 29.6 mg tris(2-methoxyphenyl)phosphine, and 0.52 g Aliquat 336 to give a copolymer with Mw 2.3 × 10⁵, fluorescence

L5 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2008 ACS ON STN

(Continued)

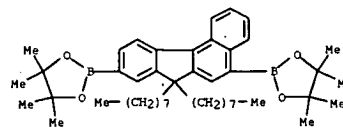


REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

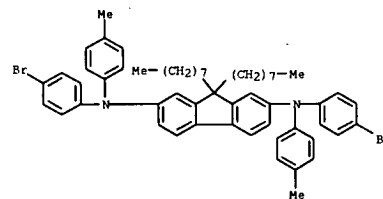
L5 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2008 ACS ON STN (Continued)

intensity 7.1, and glass transition temp. 136°.
IT 936947-26-1P
RL: IMP (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(polymers with good heat resistance and luminescent intensity for electroluminescence elements)
RN 936947-26-1 CAPLUS
CH 9H-Fluorene-2,7-diamine, N,N'-bis[4-(bromophenyl)-N,N'-bis[4-(1,1-dimethylethyl)phenyl]-9,9-dioctyl-, polymer with 5,9-dibromo-7,7-dioctyl-7H-benzo[c]fluorene and 2,2'-(7,7-dioctyl-7H-benzo[c]fluorene-5,9-diyl)bis[4,4,5,5-tetramethyl-1,3,2-dioxaborolane] (CA INDEX NAME)

CH 1
CRN 854952-68-4
CMF C45 H66 B2 O4



CH 2
CRN 852535-44-5
CMF C55 H62 Br2 N2



CH 3
CRN 794519-14-5
CMF C33 H42 Br2

L5 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2008 ACS ON STN

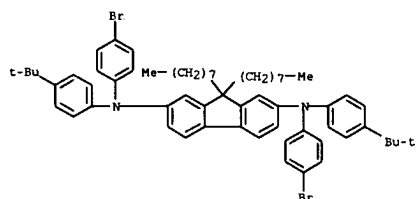
ACCESSION NUMBER: 2006:343128 CAPLUS
DOCUMENT NUMBER: 144:391623
TITLE: Electronic devices containing organic semiconductors with low halogen content
INVENTOR(S): Spreitzer, Hubert; Falcou, Aurelie; Scheurich, Rene; Schulte, Niels; Buesing, Arne; Stoessel, Philipp
PATENT ASSIGNEE(S): Merck Patent GmbH, Germany
SOURCE: PCT Int. Appl., 31 pp.
CODEN: PIXX02
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006037458	A1	20060413	WO 2005-EP10112	20050920
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
EP 1794218	A1	20070613	EP 2005-784377	20050920
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR			
PRIORITY APPLN. INFO.:			EP 2004-23475	A 20041001
			WO 2005-EP10112	W 20050920
AB	The invention relates to electronic devices containing organic semiconductors with a halogen content < 20 ppm. As a result, the service life and efficiency of the corresponding electronic devices is increased, and such materials are more suitable for use in organic electronic devices than materials having higher halogen content. In one embodiment, low mol. weight organic or polymeric semiconductors are obtained by coupling reactions involving reactive halogens, followed by optional isolation of the semiconductors, and treatment with a reducing agent until the halogen content is < 20 ppm.			
IT	882567-06-BDP, ditolylaminophenyl- and dibutoxyphenyl-terminated 882567-07-BDP, ditolylaminophenyl- and dibutoxyphenyl-terminated RL: DEV (Device component use); IMP (Industrial manufacture); PUR (Purification or recovery); PREP (Preparation); USES (Uses) (electronic devices containing organic semiconductors with low halogen content)			
RN	882567-06-8 CAPLUS			
CH	9H-Fluorene-2,7-diamine, N,N'-bis[4-(bromophenyl)-N,N'-bis[4-(1,1-dimethylethyl)phenyl]-9,9-dioctyl-, polymer with 4,7-bis[5-bromo-2-thienyl]-2,1,3-benzothiadiazole, 9-[3,4-bis(2-methylbutoxy)phenyl]-2,7-dibromo-9-(2,5-dimethylphenyl)-9H-fluorene, 2,2'-[2-[(3,7-dimethyloctyl)oxy]-5-methoxy-1,4-phenylene]di-2,1-ethenediyl]bis[5-bromothiophene] and 2,2'-(2',3',6',7'-tetrakis(2-methylbutoxy)-9,9'-spirobi[9H-fluorene]-2,7-diyl)bis[1,3,2-dioxaborolane] (9CI) (CA INDEX NAME)			

L5 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

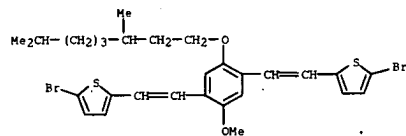
CH 1

CRN 868703-33-7
CMF C61 H74 Br2 N2



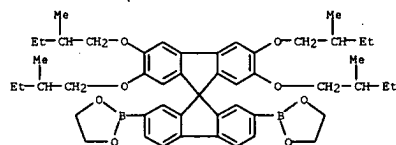
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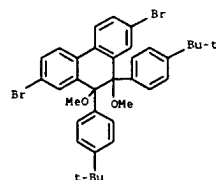
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CMF C49 H62 B2 O8



L5 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

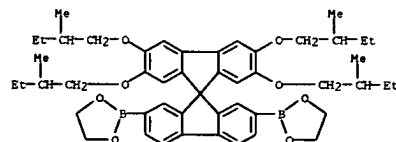
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CH 3

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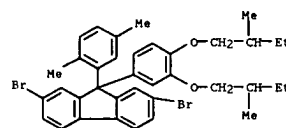


REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

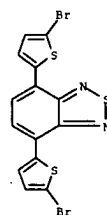
CH 4

CRN 396123-39-0
CMF C37 H40 Br2 O2



CH 5

CRN 288071-87-4
CMF C14 H6 Br2 N2 S3



RN 882567-07-9 CAPLUS

CH 9H-Fluorene-2,7-diamine, N,N'-bis[4-(1,1-dimethylethyl)phenyl]-9,9-dioctyl-, polymer with 2,7-dibromo-9,10-bis[4-(1,1-dimethylethyl)phenyl]-9,10-dihydro-9,10-dimethoxyphenanthrene and 2,2'-(2',3',6',7'-tetrakis(2-methylbutoxy)-9,9'-spirobi[9H-fluorene]-2,7-diyl)bis[1,3,2-dioxaborolane] (9CI) (CA INDEX NAME)

CH 1

CRN 868703-33-7
CMF C61 H74 Br2 N2

L5 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

L5 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2008 ACS ON STN

ACCESSION NUMBER: 2005:1170527 CAPLUS

DOCUMENT NUMBER: 143:441496

TITLE:

Polymers comprising planar arylamine or arylarsine or arylphosphine units and bifunctional monomers for preparing them and their use in electronic devices

INVENTOR(S):

Farham, Amir; Heun, Susanne; Falcou, Aurelie; Buesing, Arne; Pan, Junyou; Becker, Heinrich

PATENT ASSIGNEE(S):

Covion Organic Semiconductors GmbH, Germany

SOURCE:

FCT Int. Appl., 37 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005104263	A1	20051103	WO 2005-EP4447	20050426
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZH, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 102004020299	A1	20051201	DE 2004-102004020299	20040426
EP 1741148	A1	20070110	EP 2005-741399	20050426
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				
CN 1947274	A	20070411	CN 2005-80013203	20050426
JP 2007534814	T	20071129	JP 2007-509954	20050426
PRIORITY APPL. INFO.:			DE 2004-102004020299A	20040426
			WO 2005-EP4447	W 20050426

AB Conjugated or partly conjugated polymers are described which comprise ≥ 0.1 mol % of a repeating unit described by the general formula Ar1-A(Ar4)-(X-A(Ar2))_n-X-A(Ar3)-Ar5 (A are independently selected at each occurrence from N, P, and As; X are independently selected at each occurrence from (un)substituted bivalent planar C6-40 conjugated systems that include ≥ 2 arylene groups; Ar1-5 = (un)substituted (hetero)aromatic C2-40 ring systems with the restriction that Ar1 and Ar5 are not condensed ring systems when they are not directly attached to the polymer backbone, the unit being attached to the polymer backbone by ≥ 1 of Ar1 and Ar5; and n = 0, 1, or 2) (excepting certain specified arylene vinylene-unit containing polymers). Bifunctional monomers from which the repeating units may be derived are also described. The polymers may incorporate addnl. repeating units which may affect the morphol. or emission characteristics of the polymer, which can increase the electron-injection, hole-injection, electron-transporting, or hole-transporting capabilities of the polymer, which can emit light from a triplet state, and/or which can facilitate energy transfer from a singlet to a triplet state. The use of the polymers or of blends containing them in electronic devices (e.g., polymer organic light-emitting diodes, organic FETs,

L5 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2008 ACS ON STN (Continued)

org. integrated circuits, org. thin-film transistors, org. solar cells, org. field quenching devices, and org. laser diodes) is also described.

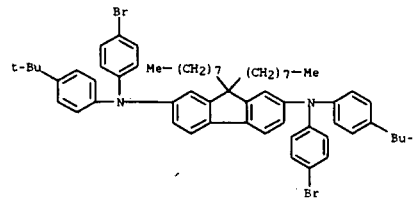
IT 868703-33-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(monomer; polymers comprising planar arylamine or arylarsine or arylphosphine units and bifunctional monomers for preparing them and their use in electronic devices)

RN 868703-33-7 CAPLUS

CN 9H-Fluorene-2,7-diamine, N,N'-bis(4-bromophenyl)-N,N'-bis[4-(1,1-dimethylethyl)phenyl]-9,9-dioctyl- (9CI) (CA INDEX NAME)



IT 868703-42-8P 868703-43-9P 868703-44-0P

868703-45-1P 868703-47-3P

RL: DEV (Device component use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)

(polymers comprising planar arylamine or arylarsine or arylphosphine units and bifunctional monomers for preparing them and their use in electronic devices)

RN 868703-42-8 CAPLUS

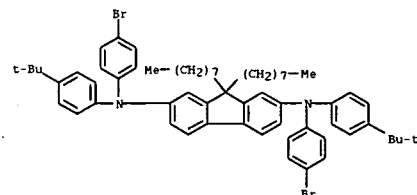
CN 9H-Fluorene-2,7-diamine, N,N'-bis(4-bromophenyl)-N,N'-bis[4-(1,1-dimethylethyl)phenyl]-9,9-dioctyl-, polymer with 2',7'-dibromo-2,3,6,7-tetrakis(2-methylbutoxy)-9,9'-spirobi[9H-fluorene] and 2,2'-(2',3',6',7'-tetrakis(2-methylbutoxy)-9,9'-spirobi[9H-fluorene]-2,7-diyl)bis[1,3,2-dioxaborolane] (9CI) (CA INDEX NAME)

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CRN 868703-33-7

CMF C61 H74 Br2 N2

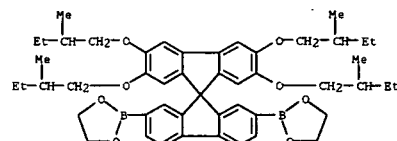
L5 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2008 ACS ON STN (Continued)



CH 2

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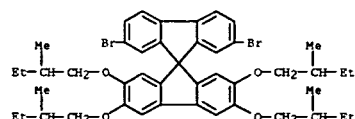
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CH 3

CRN 395059-23-1

CMF C45 H54 Br2 O4



RN 868703-43-9 CAPLUS

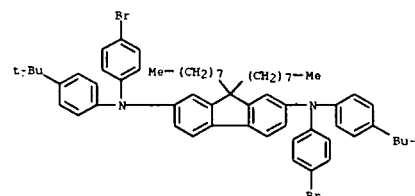
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L5 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2008 ACS ON STN (Continued)

CH 1

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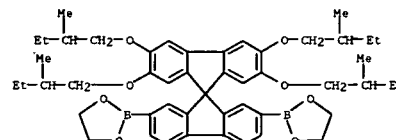
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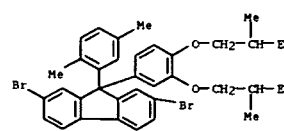
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CH 3

CRN 396123-39-0

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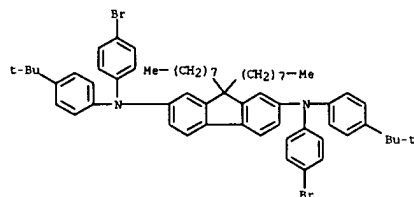


RN 868703-44-0 CAPLUS

L5 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
 CN 9H-Fluorene-2,7-diamine, N,N'-bis(4-bromophenyl)-N,N'-bis[4-(1,1-dimethylethyl)phenyl]-9,9-dioctyl-, polymer with 9,10-dibromoanthracene, 2',7'-dibromo-2,3,6,7-tetrakis(2-methylbutoxy)-9,9'-spirobi[9H-fluorene] and 2,2'-[2',3',6',7'-tetrakis(2-methylbutoxy)-9,9'-spirobi[9H-fluorene]-2,7-diyl]bis[1,3,2-dioxaborolane] (9CI) (CA INDEX NAME)

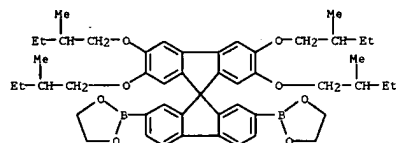
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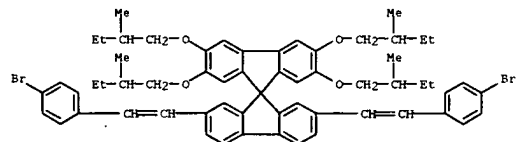


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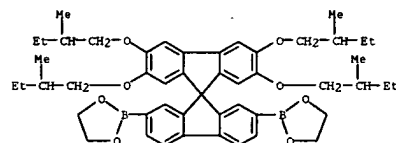
L5 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

CRN 501434-76-0
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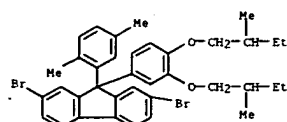
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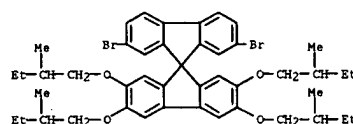
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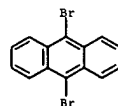
RN 868703-47-3 CAPLUS
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L5 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



CM 4

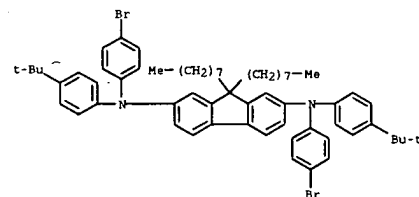
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 CMF C14 H8 Br2



RN 868703-45-1 CAPLUS
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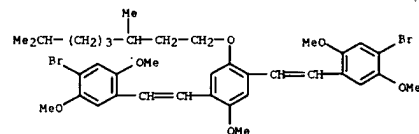


CM 2

L5 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
 fluorene]-2,7-diyl]bis[1,3,2-dioxaborolane] (9CI) (CA INDEX NAME)

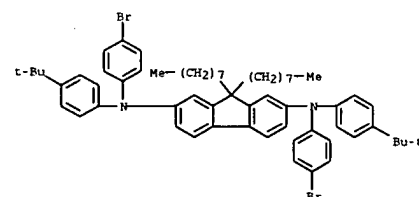
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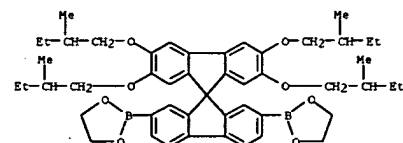
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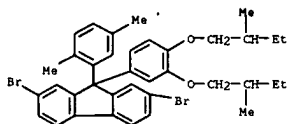


CM 3

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CN 4

CRN 396123-39-0
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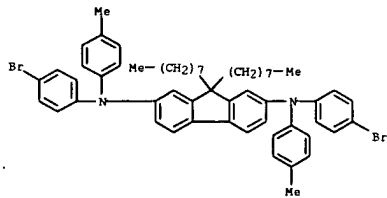
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ACCESSION NUMBER: 2005:472106 CAPLUS
DOCUMENT NUMBER: 143:8902
TITLE: Halogenated bisdiarylamino polycyclic aromatic compound-based polymers for light emitting diode devices
INVENTOR(S): Rudack, Michelle L.; Yu, Wanglin; Inbasekaran, Michael; Wu, Weishi; Welsh, Dean M.; O'Brien, James J.
PATENT ASSIGNEE(S): Dow Global Technologies Inc., USA
SOURCE: PCT Int. Appl., 34 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005049546	A1	20050602	WO 2004-US36707	20041103
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
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GB 2422838	A	20060809	GB 2006-9500	20041103
DE 112004002193	T5	20061012	DE 2004-112004002193	20041103
CN 1894199	A	20070110	CN 2004-80033613	20041103
JP 2007512249	T	20070517	JP 2006-539638	20041103
US 2007126345	A1	20070607	US 2006-579215	20060922
PRIORITY APPL. INFO.:			US 2003-520070P	P 20031114
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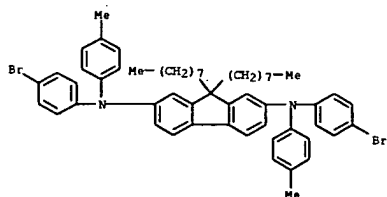
OTHER SOURCE(S): MARPAT 143:8902
AB Title polymers are prepared from halogenated compds. ArAr'NZNArAr', wherein Ar, Ar' = independently (un)substituted aryl groups and Z = polycyclic arylene group (21 of the Ar' groups = haloaryl group). Devices using polymers prepared from the halogenated compds. exhibit improved performance and longer lifetime, presumably as a result of the presence of the geometrically constrained diarylamino polycyclic aromatic groups in the polymer backbone. Thus, 2,7-dibromo-9,9-dioctylfluorene 27.4, tri-*o*-tolylphosphine 2.435, and 4-methyldiphenylamine 22.91 g were refluxed in the presence of 0.90 g palladium acetate, 12.5 of the resulting 2,7-bis(4-methyldiphenylamino)-9,9-dioctylfluorene was treated with 5.91 g N-bromosuccinimide to give 2,7-bis(4-methyl-4'-bromo-diphenylamino)-9,9-dioctylfluorene, 0.73 g of which was polymerized with 2.85 g 2,7-bis(1,3,2-dioxaborolan-2-yl)-9,9-dioctylfluorene and 3.06 g 2,7-dibromo-9,9-bis(4-hexyloxyphenyl)fluorene in the presence of 0.91 g Aliquat 336 (phase transfer agent), 5 mg trans-dichloro-bis(triphenylphosphine)palladium, and 2 M sodium carbonate for 4.8 h, and 0.22 g Ph boronic acid was added therein and stirred to give a copolymer with Mn 103,867 and polydispersity 2.92, which was fabricated into a blue light emitting device, showing average brightness 200 cd/m² at 4.43 V and average light efficiency 2.254 cd/A.
IT 852535-44-5P

L5 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(monomer; prepn. of halogenated bisdiarylamino polycyclic arom. compd.-based polymers for light emitting diode devices)
RN 852535-44-5 CAPLUS
CN 9H-Fluorene-2,7-diamine, N,N'-bis(4-bromophenyl)-N,N'-bis(4-methylphenyl)-9,9-dioctyl- (9CI) (CA INDEX NAME)

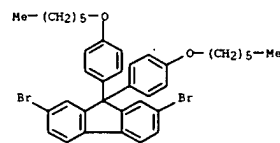


IT 852535-49-0P
RL: DEV (Device component use); IMF (Industrial manufacture); PRP (Properties); PUR (Purification or recovery); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(preparation of halogenated bisdiarylamino polycyclic aromatic compound-based polymers for light emitting diode devices)
RN 852535-49-0 CAPLUS
CN 9H-Fluorene-2,7-diamine, N,N'-bis(4-bromophenyl)-N,N'-bis(4-methylphenyl)-9,9-dioctyl-, polymer with 2,7-dibromo-9,9-bis[4-(hexyloxy)phenyl]-9H-fluorene and 2,2'-(9,9-dioctyl-9H-fluorene-2,7-diyl)bis[1,3,2-dioxaborolane] (9CI) (CA INDEX NAME)

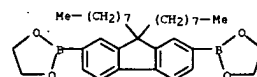
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CN 2

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CMF C37 H40 Br2 O2

CN 3

CRN 210347-49-2
CMF C33 H48 B2 O4

REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

Structure attributes must be viewed using STN Express query preparation.

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FULL SEARCH INITIATED 16:57:07 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 21144 TO ITERATE

100.0% PROCESSED 21144 ITERATIONS
SEARCH TIME: 00.00.01

37 ANSWERS

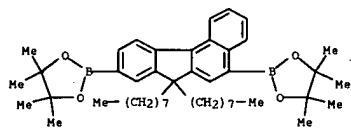
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L7 ANSWER 1 OF 37 REGISTRY COPYRIGHT 2008 ACS on STN
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 ED Entered STN: 11 Jun 2007
 CN 9H-Fluorene-2,7-diamine, N,N'-bis(4-bromophenyl)-N,N'-bis(4-methylphenyl)-9,9-dioctyl-, polymer with 5,9-dibromo-7,7-dioctyl-7H-benzo[c]fluorene and 2,2'-(7,7-dioctyl-7H-benzo[c]fluorene-5,9-diyl)bis[4,4,5,5-tetramethyl-1,3,2-dioxaborolane] (CA INDEX NAME)
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 SR CA
 LC STN Files: CA, CAPLUS

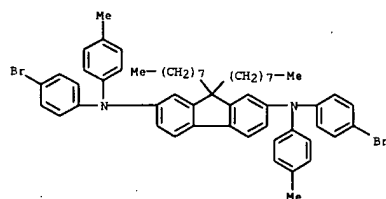
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 CMF C45 H66 B2 O4



CM 2

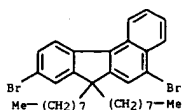
CRN 852535-44-5
 CMF C55 H62 Br2 N2



CM 3

CRN 794519-14-5
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L7 ANSWER 1 OF 37 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)

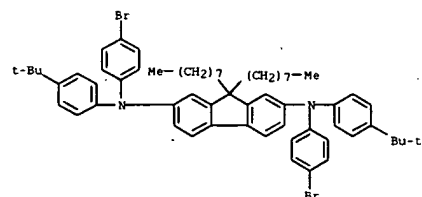


1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L7 ANSWER 2 OF 37 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 982567-07-9 REGISTRY
 ED Entered STN: 02 May 2006
 CN 9H-Fluorene-2,7-diamine, N,N'-bis(4-bromophenyl)-N,N'-bis[4-(1,1-dimethylethyl)phenyl]-9,9-dioctyl-, polymer with 2,7-dibromo-9,10-bis[4-(1,1-dimethylethyl)phenyl]-9,10-dihydro-9,10-dimethoxyphenanthrene and 2,2'-(2',3',6',7'-tetrakis(2-methylbutoxy)-9,9'-spirobi[9H-fluorene]-2,7-diyl)bis[1,3,2-dioxaborolane] (9CI) (CA INDEX NAME)
 MF [C61 H74 Br2 N2 . C49 H62 B2 O8 . C36 H38 Br2 O2]x
 CI PMS
 PCT Polyether, Polyether formed, Polyether
 SR CA
 LC STN Files: CA, CAPLUS

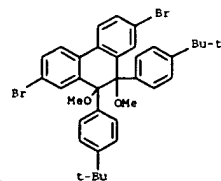
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CRN 868703-33-7
 CMF C61 H74 Br2 N2



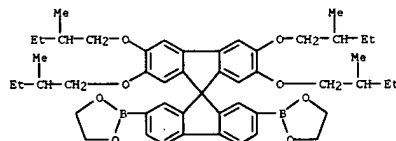
CM 2

CRN 844700-79-4
 CMF C36 H38 Br2 O2



CM 3

L7 ANSWER 2 OF 37 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)
 CRN 396123-43-6
 CMF C49 H62 B2 O8



1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L7 ANSWER 3 OF 37 REGISTRY COPYRIGHT 2008 ACS on STN

RN 882567-06-8 REGISTRY

ED Entered STN: 02 May 2006

CN 9H-Fluorene-2,7-diamine, N,N'-bis(4-bromophenyl)-N,N'-bis[4-(1,1-dimethylethyl)phenyl]-9,9-dioctyl-, polymer with 4,7-bis(5-bromo-2-thienyl)-2,1,3-benzothiadiazole, 9-[3,4-bis(2-methylbutoxy)phenyl]-2,7-dibromo-9-(2,5-dimethylphenyl)-9H-fluorene, 2,2'-[[2-[[3,7-dimethyloctyloxy]-5-methoxy-1,4-phenylene]di-2,1-ethenediyl]bis[5-bromothiophene] and 2,2'-[[2',3',6',7'-tetrakis(2-methylbutoxy)-9,9'-spirobi[9H-fluorene]-2,7-diyl]bis[1,3,2-dioxaborolane] (9CI) (CA INDEX NAME)

MF (C61 H74 Br2 N2 . C49 H62 B2 O8 . C37 H40 Br2 O2 . C29 H34 Br2 O2 S2 . C14 H6 Br2 N2 S3)x

CI PMS

PCT Polyether, Polyether formed, Polyether, Polystyrene, Polyvinyl

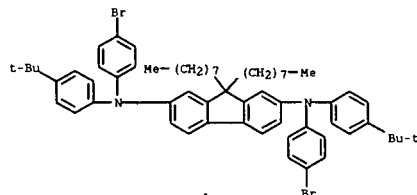
SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 868703-33-7

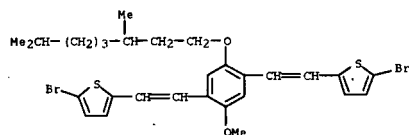
CMF C61 H74 Br2 N2



CM 2

CRN 848892-54-6

CMF C29 H34 Br2 O2 S2



CM 3

L7 ANSWER 3 OF 37 REGISTRY COPYRIGHT 2008 ACS on STN
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

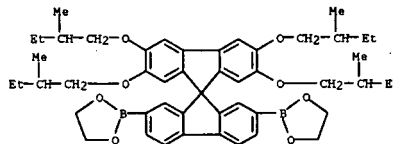
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L7 ANSWER 3 OF 37 REGISTRY COPYRIGHT 2008 ACS on STN

CRN 396123-43-6

CMF C49 H62 B2 O8

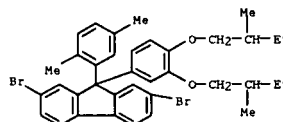
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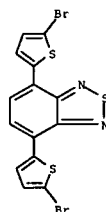
CMF C37 H40 Br2 O2



CM 5

CRN 288071-87-4

CMF C14 H6 Br2 N2 S3



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA.

L7 ANSWER 4 OF 37 REGISTRY COPYRIGHT 2008 ACS on STN

RN 880487-40-1 REGISTRY

ED Entered STN: 14 Apr 2006

CN Poly[[3,5-difluorophenyl]imino][9,9-dioctyl-9H-fluorene-2,7-diyl][(3,5-difluorophenyl)imino]-1,4-phenylene[9,9-bis(3,6,9,12-tetraoxatridec-1-yl)-9H-fluorene-2,7-diyl]-1,4-phenylene] (9CI) (CA INDEX NAME)

MF (C84 H98 F4 N2 O8)n

CI PMS

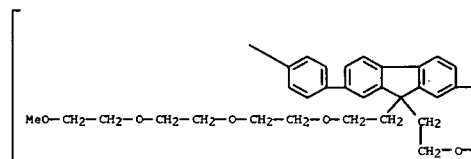
PCT Polyamine

SR CA

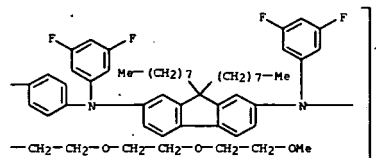
LC STN Files: CA, CAPLUS

RELATED POLYMERS AVAILABLE WITH POLYLINK

PAGE 1-A



PAGE 1-B

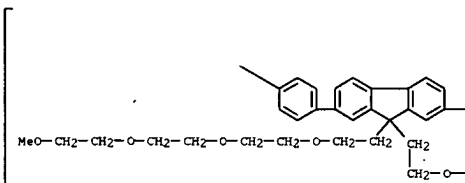


3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

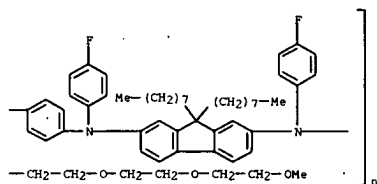
L7 ANSWER 5 OF 37 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 880487-39-8 REGISTRY
 ED Entered STN: 14 Apr 2006
 CN Poly[[(4-fluorophenyl)imino](9,9-dioctyl-9H-fluorene-2,7-diyl)]-1,4-phenylene[9,9-bis(3,6,9,12-tetraoxatridec-1-yl)-9H-fluorene-2,7-diyl]-1,4-phenylene (9CI) (CA INDEX NAME)
 MF (C84 H100 F2 N2 O8)n
 CI PMS
 PCT Polyamine
 SR CA
 LC STN Files: CA, CAPLUS

RELATED POLYMERS AVAILABLE WITH POLYLINK

PAGE 1-A



PAGE 1-B

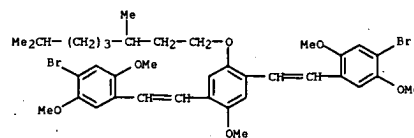


3 REFERENCES IN FILE CA (1907 TO DATE)
 3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L7 ANSWER 6 OF 37 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 868703-47-3 REGISTRY
 ED Entered STN: 23 Nov 2005
 CN 9H-Fluorene-2,7-diamine, N,N'-bis(4-bromophenyl)-N,N'-bis[4-(1,1-dimethylethyl)phenyl]-9,9-dioctyl-, polymer with 1,4-bis[2-(4-bromo-2,5-dimethoxyphenyl)ethenyl]-2-[(3,7-dimethyloctyl)oxy]-5-methoxybenzene, 9-[3,4-bis(2-methylbutoxy)phenyl]-2,7-dibromo-9-(2,5-dimethylphenyl)-9H-fluorene and 2,2'-[2',3',6',7'-tetrakis(2-methylbutoxy)-9,9'-spirobi[9H-fluorene]-2,7-diyl]bis[1,3,2-dioxaborolane] (9CI) (CA INDEX NAME)
 MF (C61 H74 Br2 N2 . C49 H62 B2 O8 . C37 H46 Br2 O6 . C37 H40 Br2 O2)x
 CI PMS
 PCT Polyether, Polyether formed, Polyether, Polystyrene
 SR CA
 LC STN Files: CA, CAPLUS

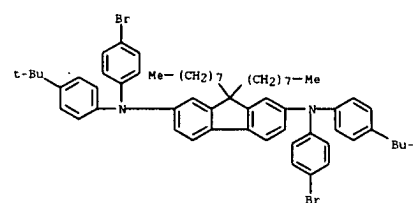
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CRN 868703-46-2
 CHF C37 H46 Br2 O6



CH 2

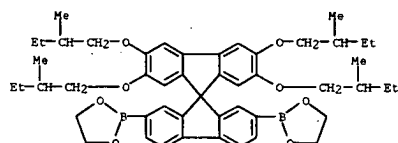
CRN 868703-33-7
 CHF C61 H74 Br2 N2



CH 3

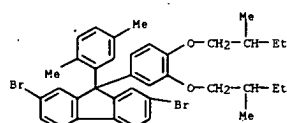
CRN 396123-43-6
 CHF C49 H62 B2 O8

L7 ANSWER 6 OF 37 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)



CH 4

CRN 396123-39-0
 CHF C37 H40 Br2 O2

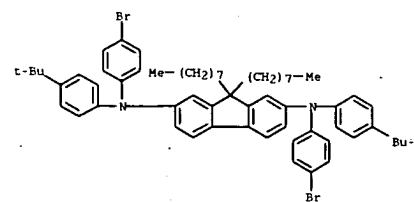


1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L7 ANSWER 7 OF 37 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 868703-45-1 REGISTRY
 ED Entered STN: 23 Nov 2005
 CN 9H-Fluorene-2,7-diamine, N,N'-bis(4-bromophenyl)-N,N'-bis[4-(1,1-dimethylethyl)phenyl]-9,9-dioctyl-, polymer with 2',7'-bis[2-(4-bromophenyl)ethenyl]-2,3,6,7-tetrakis(2-methylbutoxy)-9,9'-spirobi[9H-fluorene], 9-[3,4-bis(2-methylbutoxy)phenyl]-2,7-dibromo-9-(2,5-dimethylphenyl)-9H-fluorene and 2,2'-[2',3',6',7'-tetrakis(2-methylbutoxy)-9,9'-spirobi[9H-fluorene]-2,7-diyl]bis[1,3,2-dioxaborolane] (9CI) (CA INDEX NAME)
 MF (C61 H74 Br2 N2 . C61 H66 Br2 O4 . C49 H62 B2 O8 . C37 H40 Br2 O2)x
 CI PMS
 PCT Polyether, Polyether formed, Polyether, Polyvinyl
 SR CA
 LC STN Files: CA, CAPLUS

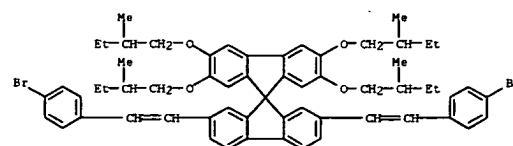
CH 1

CRN 868703-33-7
 CHF C61 H74 Br2 N2



CH 2

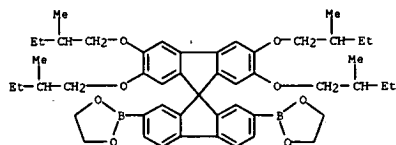
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CH 3

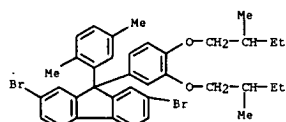
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L7 ANSWER 7 OF 37 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)
 RN 868703-44-0 REGISTRY
 ED Entered STN: 23 Nov 2005
 CN 9H-Fluorene-2,7-diamine, N,N'-bis(4-bromophenyl)-N,N'-bis[4-(1,1-dimethylethyl)phenyl]-9,9-dioctyl-, polymer with 9,10-dibromoanthracene, 2',7'-dibromo-2,3,6,7-tetrakis(2-methylbutoxy)-9,9'-spirobi[9H-fluorene] and 2,2'-(2,3',6',7'-tetrakis(2-methylbutoxy)-9,9'-spirobi[9H-fluorene]-2,7-diyl)bis[1,3,2-dioxaborolane] (9CI) (CA INDEX NAME)
 MF C61 H74 Br2 N2 . C49 H62 B2 O8 . C45 H54 Br2 O4 . C14 H8 Br2)x
 CI PMS
 PCT Polyether, Polyether formed, Polyether
 SR CA
 LC STN Files: CA, CAPLUS



CH 4

CRN 396123-39-0
 CHF C37 H40 Br2 O2

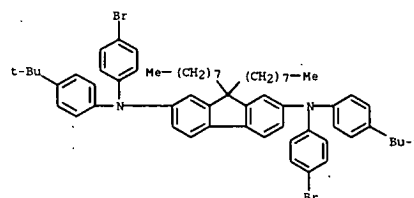


1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L7 ANSWER 8 OF 37 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 868703-44-0 REGISTRY
 ED Entered STN: 23 Nov 2005
 CN 9H-Fluorene-2,7-diamine, N,N'-bis(4-bromophenyl)-N,N'-bis[4-(1,1-dimethylethyl)phenyl]-9,9-dioctyl-, polymer with 9,10-dibromoanthracene, 2',7'-dibromo-2,3,6,7-tetrakis(2-methylbutoxy)-9,9'-spirobi[9H-fluorene] and 2,2'-(2,3',6',7'-tetrakis(2-methylbutoxy)-9,9'-spirobi[9H-fluorene]-2,7-diyl)bis[1,3,2-dioxaborolane] (9CI) (CA INDEX NAME)
 MF C61 H74 Br2 N2 . C49 H62 B2 O8 . C45 H54 Br2 O4 . C14 H8 Br2)x
 CI PMS
 PCT Polyether, Polyether formed, Polyether
 SR CA
 LC STN Files: CA, CAPLUS

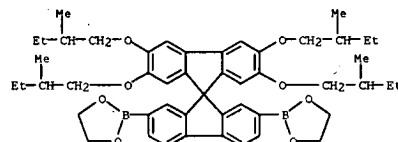
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CH 2

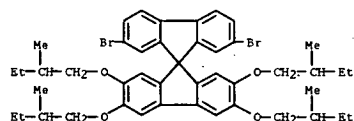
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CH 3

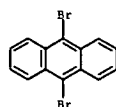
CRN 395059-23-1
 CHF C45 H54 Br2 O4

L7 ANSWER 8 OF 37 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)



CH 4

CRN 523-27-3
 CHF C14 H8 Br2

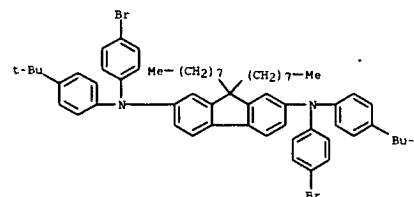


1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L7 ANSWER 9 OF 37 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 868703-43-9 REGISTRY
 ED Entered STN: 23 Nov 2005
 CN 9H-Fluorene-2,7-diamine, N,N'-bis(4-bromophenyl)-N,N'-bis[4-(1,1-dimethylethyl)phenyl]-9,9-dioctyl-, polymer with 9-(3,4-bis(2-methylbutoxy)phenyl)-2,7-dibromo-9-(2,5-dimethylphenyl)-9H-fluorene and 2,2'-(2,3',6',7'-tetrakis(2-methylbutoxy)-9,9'-spirobi[9H-fluorene]-2,7-diyl)bis[1,3,2-dioxaborolane] (9CI) (CA INDEX NAME)
 MF C61 H74 Br2 N2 . C49 H62 B2 O8 . C37 H40 Br2 O2)x
 CI PMS
 PCT Polyether, Polyether formed, Polyether
 SR CA
 LC STN Files: CA, CAPLUS

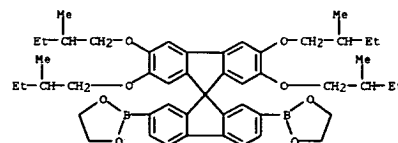
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CH 2

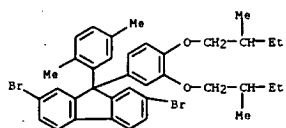
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CH 3

CRN 396123-39-0
 CHF C37 H40 Br2 O2

L7 ANSWER 9 OF 37 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)

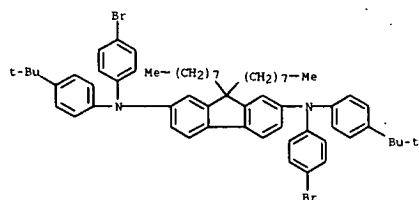


1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L7 ANSWER 10 OF 37 REGISTRY COPYRIGHT 2008 ACS on STN
RN 868703-42-8 REGISTRY
ED Entered STN: 23 Nov 2005
CN 9H-Fluorene-2,7-diamine, N,N'-bis(4-bromophenyl)-N,N'-bis[4-(1,1-dimethylethyl)phenyl]-9,9-dioctyl-, polymer with 2',7'-dibromo-2,3,6,7-tetrakis(2-methylbutoxy)-9,9'-spirobi[9H-fluorene] and 2,2'-[2',3',6',7'-tetrakis(2-methylbutoxy)-9,9'-spirobi[9H-fluorene]-2,7-diyl]bis[1,3,2-dioxaborolane] (9C1) (CA INDEX NAME)
(C61 H74 Br2 N2 . C49 H62 B2 O8 . C45 H54 Br2 O4)x
MF PMS
PCT Polyether, Polyether formed, Polyether
SR CA
LC STN Files: CA, CAPLUS

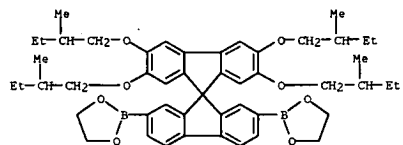
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CRN 868703-33-7
CMF C61 H74 Br2 N2



CH 2

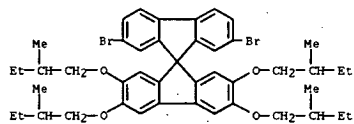
CRN 396123-43-6
CMF C49 H62 B2 O8



CH 3

CRN 395059-23-1
CMF C45 H54 Br2 O4

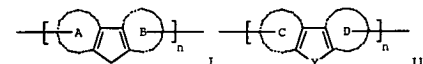
L7 ANSWER 10 OF 37 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)



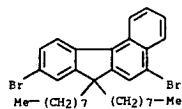
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L8 ANSWER 1 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2007:564481 CAPLUS
 DOCUMENT NUMBER: 146:523130
 TITLE: Polymers with good heat resistance and luminescent intensity for electroluminescence elements
 INVENTOR(S): Fukushima, Daisuke; Tsubata, Yoshiaki; Anryu, Makoto
 PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Japan
 SOURCE: PCT Int. Appl., 117pp.
 CODEN: PIIXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007058368	A1	20070524	WO 2006-JF323257	20061115
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BV, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
JP 2007162009	A	20070628	JP 2006-310009	20061116
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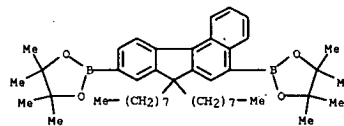


AB Title polymers comprise ≥ 1 repeat unit [Ar2N(Ar1)2N(Ar1)Ar2] and ≥ 1 repeat unit selected I and II, wherein Ar1 = aryl or univalent aromatic heterocyclic group; Ar2 = arylene or bivalent aromatic heterocyclic group; and Z = bivalent aromatic group having a fused ring structure; rings A, B = independently aromatic hydrocarbon ring (≥ 1 of the rings A and B = aromatic hydrocarbon ring in which ≥ 2 benzene rings are fused); R_w, R_x = independently hydrogen atom or alkyl; rings C, D = independently aromatic ring; Y = O, S, or OC(Rk)2; Rk = H or alkyl. Thus, 0.11 mol 9,10-dibromoanthracene and 0.22 mol N-(4-tert-butylphenyl)aniline were reacted in the presence of 0.27 mmol tris(benzylideneacetone)dipalladium and 9 mmol tri-tert-butylphosphine at 100°, brominated with N-bromosuccinimide to give N,N'-bis[4-(1,1-dimethylethyl)phenyl]-N,N'-bis(4-bromophenyl)-9,10-anthracenediamine, 0.24 mmol of which was polymerized with 3.76 mmol 5,9-dibromo-7,7-dioctyl-7H-benzo[c]fluorene and 3.96 mmol 2,2'-(7,7-dioctyl-7H-benzo[c]fluorene-5,9-diyl)bis[4,4,5,5-tetramethyl-1,3,2-dioxaborolane] at 105° for 4.5 h in the presence of 2.7 mg palladium acetate, 29.6 mg tris(2-methoxyphenyl)phosphine, and 0.52 g Aliquat 336 to give a copolymer with Mw 2.3 × 10⁵, fluorescence

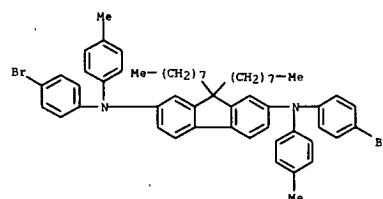


REFERENCE COUNT: 10. THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 1 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
 intensity 7.1, and glass transition temp. 136°.
 IT 936947-26-1P
 RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (polymers with good heat resistance and luminescent intensity for electroluminescence elements)
 RN 936947-26-1 CAPLUS
 CN 9H-Fluorene-2,7-diamine, N2,N7-bis(4-bromophenyl)-N2,N7-bis(4-methylphenyl)-9,9-dioctyl-, polymer with 5,9-dibromo-7,7-dioctyl-7H-benzo[c]fluorene and 2,2'-(7,7-dioctyl-7H-benzo[c]fluorene-5,9-diyl)bis[4,4,5,5-tetramethyl-1,3,2-dioxaborolane] (CA INDEX NAME)
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 CRN 854952-68-4
 CMF C45 H66 B2 O4



CM 2
 CRN 852535-44-5
 CMF C55 H62 Br2 N2

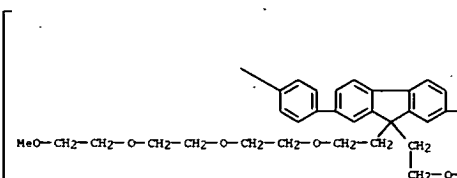


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 CRN 794519-14-5
 CMF C33 H42 Br2

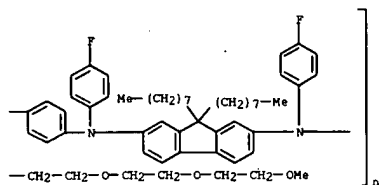
L8 ANSWER 1 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

L8 ANSWER 2 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2006:887435 CAPLUS
 DOCUMENT NUMBER: 147:12679
 TITLE: Organic redox cascades in dye sensitized solar cells
 AUTHOR(S): Holmes, Andrew B.; Jones, David J.; Schulte, Niels; Park, Taiho; Haque, Salf A.; Durrant, James R.
 CORPORATE SOURCE: Bio21 Institute, The School of Chemistry, University of Melbourne, Parkville Vic., 3010, Australia
 SOURCE: PMSE Preprints (2006), 95, 429-430
 CODEN: PPMRA9; ISSN: 1550-6703
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal (computer optical disk)
 LANGUAGE: English
 AB A series of ion-chelating hole transport polymers was synthesized in which the polymer redox potentials have been adjusted by changes in substituents, for use in creating organic redox cascades in dye sensitized solar cells. The interfacial charge recombination kinetics of the polymers were evaluated. Results demonstrated that the interfacial recombination half-times of the polymer devices can be controlled by adjusting the energy levels of the polymers used in the device by the construction of a redox cascade.
 IT 880487-39-8 880487-40-1
 RL: TEM (Technical or engineered material use); USES (Uses)
 (organic redox cascades in dye sensitized solar cells)
 RN 880487-39-8 CAPLUS
 CN Poly[[(4-fluorophenyl)imino] (9,9-dioctyl-9H-fluorene-2,7-diyl)] [(4-fluorophenyl)imino]-1,4-phenylene[9,9-bis(3,6,9,12-tetraoxatridec-1-yl)-9H-fluorene-2,7-diyl]-1,4-phenylene] (9C1) (CA INDEX NAME)

PAGE 1-A

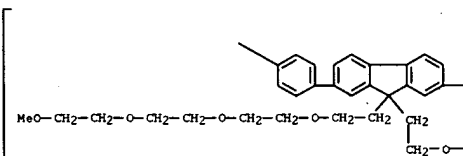


PAGE 1-B

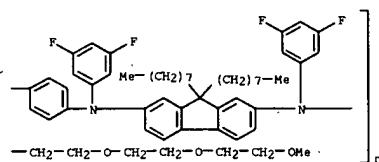


RN 880487-40-1 CAPLUS
 CN Poly[[[(3,5-difluorophenyl)imino]-(9,9-dioctyl-9H-fluorene-2,7-diyl)]-[(3,5-difluorophenyl)imino]-1,4-phenylene[9,9-bis[3,6,9,12-tetraoxatridec-1-yl]-9H-fluorene-2,7-diyl]-1,4-phenylene] (9CI) (CA INDEX NAME)

PAGE 1-A

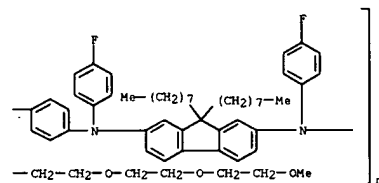


PAGE 1-B



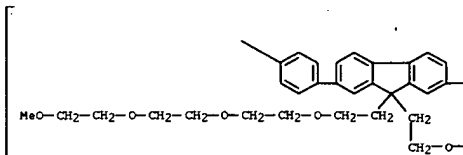
REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

PAGE 1-B

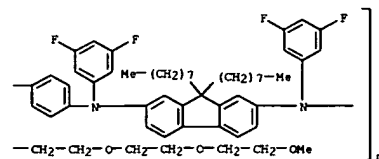


RN 880487-40-1 CAPLUS
 CN Poly[[[(3,5-difluorophenyl)imino]-(9,9-dioctyl-9H-fluorene-2,7-diyl)]-[(3,5-difluorophenyl)imino]-1,4-phenylene[9,9-bis[3,6,9,12-tetraoxatridec-1-yl]-9H-fluorene-2,7-diyl]-1,4-phenylene] (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



ACCESSION NUMBER: 2006:436710 CAPLUS

DOCUMENT NUMBER: 145:11216

TITLE: Interface engineering for solid-state dye-sensitized nanocrystalline solar cells: the use of an organic redox cascade. [Erratum to document cited in, CA144:334160]

AUTHOR(S): Hirata, Narukuni; Kroeze, Jessica E.; Park, Taiho; Jones, David; Haque, Saif A.; Holmes, Andrew B.; Durrant, James R.

CORPORATE SOURCE: Centre for Electronic Materials and Devices, Department of Chemistry, Imperial College London, London, SW7 2AZ, UK

SOURCE: Chemical Communications (Cambridge, United Kingdom) (2006), (6), 677

CODEN: CHCOFS; ISSN: 1359-7345

PUBLISHER: Royal Society of Chemistry

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The structural formula in Figure 3 on page 536 was incorrect. The correct

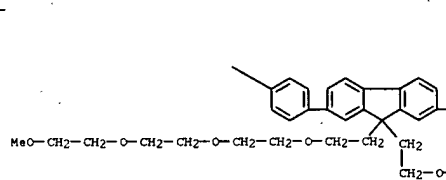
structure is given.

IT 880487-39-8 880487-40-1
 RL: DEV (Device component use); USES (Uses)
 (organic redox cascade in interface engineering for solid-state dye-sensitized nanocryst. solar cells (Erratum))

RN 880487-39-8 CAPLUS

CN Poly[[[(4-fluorophenyl)imino]-(9,9-dioctyl-9H-fluorene-2,7-diyl)]-[(4-fluorophenyl)imino]-1,4-phenylene[9,9-bis[3,6,9,12-tetraoxatridec-1-yl]-9H-fluorene-2,7-diyl]-1,4-phenylene] (9CI) (CA INDEX NAME)

PAGE 1-A



ACCESSION NUMBER: 2006:343128 CAPLUS

DOCUMENT NUMBER: 144:391623

TITLE: Electronic devices containing organic semiconductors with low halogen content

INVENTOR(S): Spreitzer, Hubert; Falcou, Aurelie; Scheurich, Rene;

Schulte, Niels; Buesing, Arne; Stoessel, Philipp

PATENT ASSIGNEE(S): Merck Patent GmbH, Germany

SOURCE: PCT Int. Appl., 31 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006037458	A1	20060413	WO 2005-EP10112	20050920
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BV, BY, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
EP 1794218	A1	20070613	EP 2005-784377	20050920
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR				
PRIORITY APPLN. INFO.: EP 2004-23475 A 20041001				
WO 2005-EP10112 W 20050920				

AB The invention relates to electronic devices containing organic

semiconductors with a halogen content < 20 ppm. As a result, the service life and efficiency of the corresponding electronic devices is increased, and such materials are more suitable for use in organic electronic devices than materials having higher halogen content. In one embodiment, low mol. weight organic or polymeric semiconductors are obtained by coupling reactions involving reactive halogens, followed by optional isolation of the semiconductors, and treatment with a reducing agent until the halogen content is < 20 ppm.

IT 882567-06-SDP, ditolylaminophenyl- and dibutoxyphenyl-terminated 882567-07-SDP, ditolylaminophenyl- and dibutoxyphenyl-terminated

RL: DEV (Device component use); IMP (Industrial manufacture); PUR (Purification or recovery); PREP (Preparation); USES (Uses)

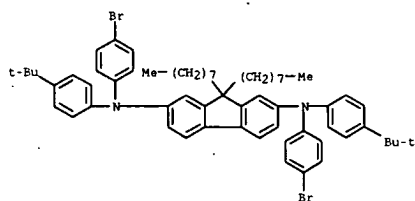
(electronic devices containing organic semiconductors with low halogen content)

RN 882567-06-8 CAPLUS

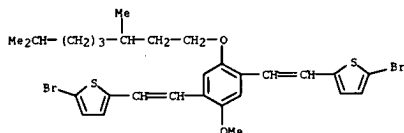
CN SH-Fluorene-2,7-diimine, N,N'-bis[4-(bromophenyl)-N,N'-bis[4-(1,1-dimethylethyl)phenyl]-9,9-dioctyl-, polymer with 4,7-bis[5-bromo-2-thienyl]-2,1,3-benzoxadiazole, 9-[3,4-bis(2-methylbutoxy)phenyl]-2,7-dibromo-9-(2,5-dimethylphenyl)-9H-fluorene, 2,2'-[2-[(3,7-dimethyloctyl)oxy]-5-methoxy-1,4-phenylene]di-2,1-ethenediyl]bis[5-bromothiophene] and 2,2'-[2,3',6',7'-tetrakis(2-methylbutoxy)-9,9'-spirobi[9H-fluorene]-2,7-diyl]bis[1,3,2-dioxaborolane] (9CI) (CA INDEX NAME)

L8 ANSWER 4 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

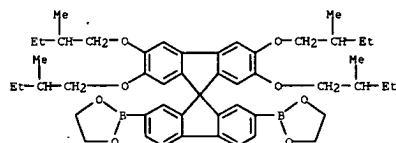
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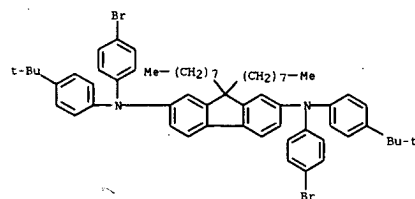
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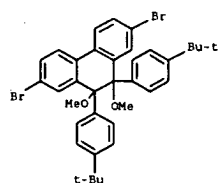
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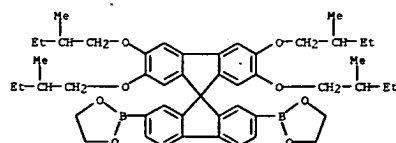
L8 ANSWER 4 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



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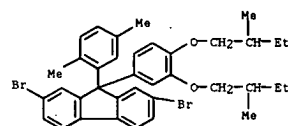
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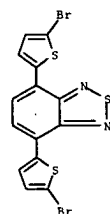
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L8 ANSWER 4 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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CRN 396123-39-0
CMF C37 H40 Br2 O2



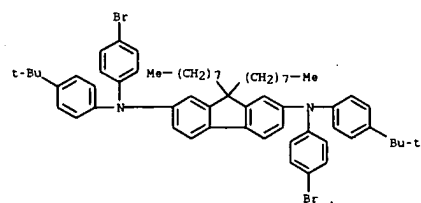
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CRN 288071-87-4
CMF C14 H6 Br2 N2 S3



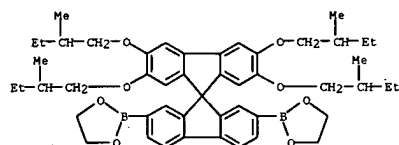
RN 882567-07-9 CAPLUS
CN 9H-Fluorene-2,7-diamine, N,N'-bis(4-bromophenyl)-N,N'-bis[4-(1,1-dimethylethyl)phenyl]-9,9-dioctyl-, polymer with 2,7-dibromo-9,10-bis[4-(1,1-dimethylethyl)phenyl]-9,10-dihydro-9,10-dimethoxyphenanthrene and 2,2'-(2',3',6',7'-tetrakis(2-methylbutoxy)-9,9'-spirobi[9H-fluorene]-2,7-diyl)bis[1,3,2-dioxaborolane] (9CI) (CA INDEX NAME)

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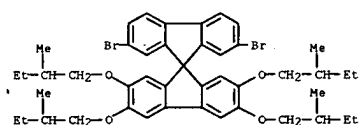
L8 ANSWER 4 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



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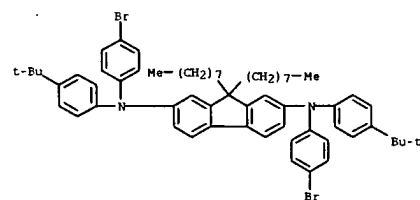
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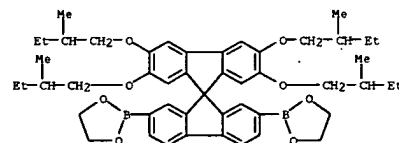
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CN 9H-Fluorene-2,7-diamine, N,N'-bis(4-bromophenyl)-N,N'-bis[4-(1,1-dimethylethyl)phenyl]-9,9-dioctyl-, polymer with 9-[3,4-bis(2-methylbutoxy)phenyl]-2,7-dibromo-9-(2,5-dimethylphenyl)-9H-fluorene and 2,2'-(2',3',6',7'-tetrakis(2-methylbutoxy)-9,9'-spirobi[9H-fluorene]-2,7-diyl)bis[1,3,2-dioxaborolane] (9CI) (CA INDEX NAME)

L8 ANSWER 6 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
CN 9H-Fluorene-2,7-diamine, N,N'-bis(4-bromophenyl)-N,N'-bis[4-(1,1-dimethylethyl)phenyl]-9,9-dioctyl-, polymer with 9-[3,4-bis(2-methylbutoxy)phenyl]-2,7-dibromo-9-(2,5-dimethylphenyl)-9H-fluorene and 2,2'-(2',3',6',7'-tetrakis(2-methylbutoxy)-9,9'-spirobi[9H-fluorene]-2,7-diyl)bis[1,3,2-dioxaborolane] (9CI) (CA INDEX NAME)

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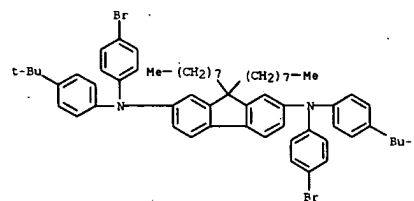
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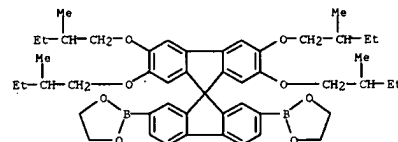
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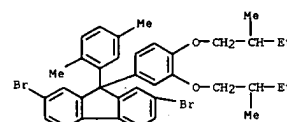
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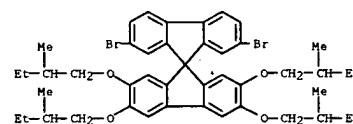
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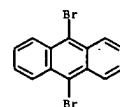
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CRN 396123-39-0
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RN 868703-44-0 CAPLUS

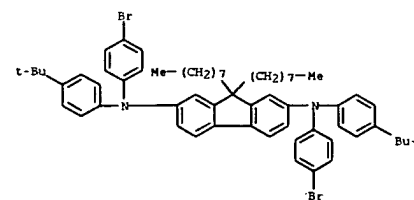


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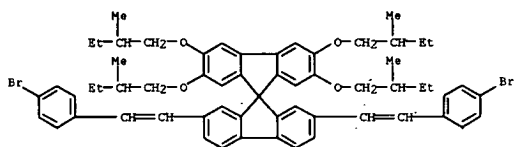
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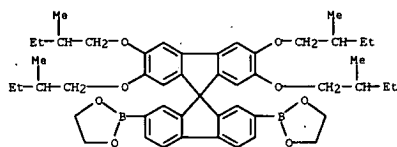
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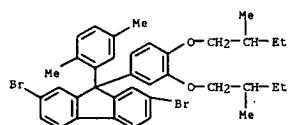
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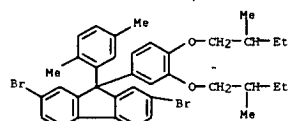
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CM 4

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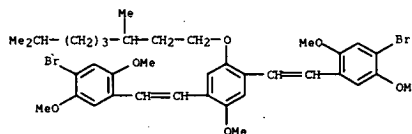
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CM 4

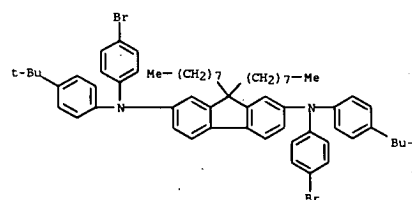
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REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

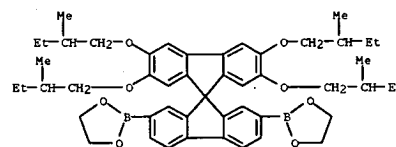
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CMF C37 H46 Br2 O6

CM 2

CRN 868703-33-7
CMF C61 H74 Br2 N2

CM 3

CRN 396123-43-6
CMF C49 H62 B2 O8

ACCESSION NUMBER: 2005:695800 CAPLUS
DOCUMENT NUMBER: 143:183088
TITLE: Electrophotographic photoreceptors with good abrasion and scratch resistance, process cartridges, and electrophotographic apparatus
INVENTOR(S): Ogaki, Harunobu; Tanaka, Takakazu; Kako, Kenichi
PATENT ASSIGNEE(S): Canon Inc., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 50 pp.
CODEM: JPOKAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005208111	A	20050804	JP 2004-11685	20040120
PRIORITY APPLN. INFO.			JP 2004-11685	20040120

OTHER SOURCE(S): MARPAT 143:183088

AB The photoreceptors have (A) charge generation layers containing charge generation materials and specific aromatic polyamine charge transport materials, and (B) charge transport layers containing 90-100% specific aromatic polyamine charge transport materials with mol. weight 1500-4000 in this order.

on supports. The electrophotog. apparatus shows good printing durability.

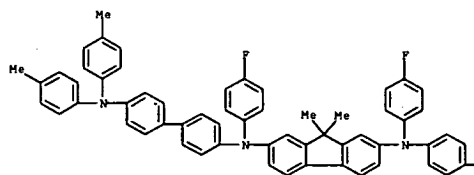
IT 861249-24-3

RL: DEV (Device component use); USES (Uses)
(electrophotog. photoreceptors containing specific aromatic polyamine charge

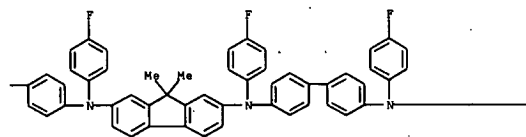
transport materials in charge generation layers and charge transport layers)

RN 861249-24-3 CAPLUS

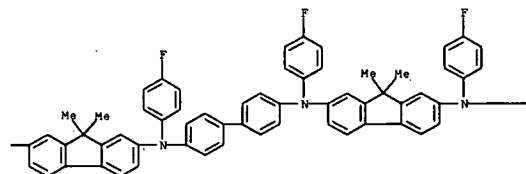
CN 9H-Fluorene-2,7-diamine, N,N'-bis[1,1'-biphenyl]-4,4'-diylbis[N'-(4'-[1,1'-bis(4-methylphenyl)amino][1,1'-biphenyl]-4-yl)](4-fluorophenyl)amino]-9,9-dimethyl-9H-fluorene-2-yl]](4-fluorophenyl)amino][1,1'-biphenyl]-4-yl]-N,N'-bis(4-fluorophenyl)-9,9-dimethyl- (SCI) (CA INDEX NAME)



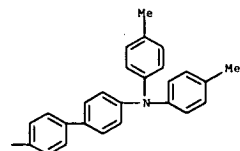
PAGE 1-B



PAGE 1-C



PAGE 1-D



L8 ANSWER 8 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN

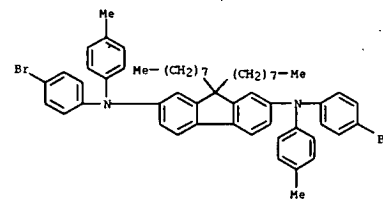
ACCESSION NUMBER: 2005:472106 CAPLUS
 DOCUMENT NUMBER: 143:8902
 TITLE: Halogenated bisdiarylamino polycyclic aromatic compound-based polymers for light emitting diode devices
 INVENTOR(S): Hudack, Michelle L.; Yu, Wanglin; Inbasekaran, Michael; Wu, Weishi; Welsh, Dean M.; O'Brien, James J.
 PATENT ASSIGNEE(S): Dow Global Technologies Inc., USA
 SOURCE: PCT Int. Appl., 34 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005049546	A1	20050602	WO 2004-US36707	20041103
V:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, NZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
GB 2422838	A	20060809	GB 2006-9500	20041103
DE 112004002193	T5	20061012	DE 2004-112004002193	20041103
CN 1894199	A	20070110	CN 2004-80033613	20041103
JP 2007512249	T	20070517	JP 2006-539638	20041103
US 2007126345	A1	20070607	US 2006-579215	20060922
PRIORITY APPLN. INFO.:			US 2003-520070P	P 20031114
			WO 2004-US36707	W 20041103

OTHER SOURCE(S): MARPAT 143:8902
 AB Title polymers are prepared from halogenated compds. ArAr'NZNArAr', wherein Ar, Ar' = independently (un)substituted aryl groups and Z = polycyclic arylene group (21 of the Ar' groups = haloaryl group). Devices using polymers prepared from the halogenated compds. exhibit improved performance and longer lifetime, presumably as a result of the presence of the geometrically constrained diarylamino polycyclic aromatic groups in the polymer backbone. Thus, 2,7-dibromo-9,9-dioctylfluorene 27.4, tri-o-tolylphosphine 2.435, and 4-methyldiphenylamine 22.91 g were refluxed in the presence of 0.90 g palladium acetate, 12.5 of the resulting 2,7-bis(4-methyldiphenylamino)-9,9-dioctylfluorene was treated with 5.91 g N-bromosuccinimide to give 2,7-bis(4-methyl-4'-bromodiphenylamino)-9,9-dioctylfluorene, 0.73 g of which was polymerized with 2.85 g 2,7-bis(1,3,2-dioxaborolan-2-yl)-9,9-dioctylfluorene and 3.06 g 2,7-dibromo-9,9-bis(4-hexyloxyphenyl)fluorene in the presence of 0.91 g Aliquat 336 (phase transfer agent), 5 mg trans-dichloro-bis(triphenylphosphine)palladium, and 2 M sodium carbonate for 4.8 h, and 0.22 g Ph boronic acid was added therein and stirred to give a copolymer with Mn 103,867 and polydispersity 2.92, which was fabricated into a blue light emitting device, showing average brightness 200 cd/m² at 4.43 V and average light efficiency 2.254 cd/A.
 IT 852535-44-5P

L8 ANSWER 8 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

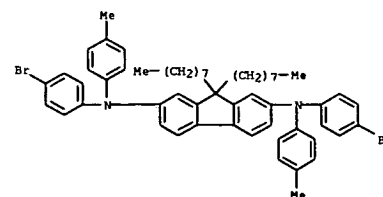
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
 (monomer; prepn. of halogenated bisdiarylamino polycyclic arom. compd.-based polymers for light emitting diode devices)
 RN 852535-44-5 CAPLUS
 CN 9H-Fluorene-2,7-diamine, N,N'-bis(4-bromophenyl)-N,N'-bis(4-methylphenyl)-9,9-dioctyl- (9CI) (CA INDEX NAME)



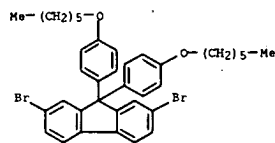
IT 852535-49-0P
 RL: DEV (Device component use); IMF (Industrial manufacture); PRP (Properties); PUR (Purification or recovery); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (preparation of halogenated bisdiarylamino polycyclic aromatic compound-based polymers for light emitting diode devices)
 RN 852535-49-0 CAPLUS
 CN 9H-Fluorene-2,7-diamine, N,N'-bis(4-bromophenyl)-N,N'-bis(4-methylphenyl)-9,9-dioctyl-, polymer with 2,7-dibromo-9,9-bis[4-(hexyloxy)phenyl]-9H-fluorene and 2,2'-(9,9-dioctyl-9H-fluorene-2,7-diyl)bis[1,3,2-dioxaborolane] (9CI) (CA INDEX NAME)

CM 1

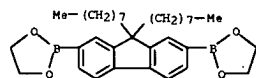
CRN 852535-44-5
 CMF C55 H62 Br2 N2



CM 2

CRN 690994-34-4
CMF C37 H40 Br2 O2

CM 3

CRN 210347-49-2
CMF C33 H48 B2 O4

REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ACCESSION NUMBER: 2004:474336 CAPLUS
DOCUMENT NUMBER: 141:334740TITLE: Interface engineering for solid-state dye-sensitized nanocrystalline solar cells: The use of ion-solvating hole-transporting polymers
AUTHOR(S): Haque, Salf A.; Park, Taiho; Xu, Cigang; Koops, Sara; Schulte, Niels; Potter, Robert J.; Holmes, Andrew B.; Durrant, James R.CORPORATE SOURCE: Centre for Electronic Materials and Devices, Department of Chemistry, Imperial College of Science Technology and Medicine, London, SW7 2AZ, UK
SOURCE: Advanced Functional Materials (2004), 14(5), 435-440
CODEN: AFMDC6; ISSN: 1616-301X

PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The control of interfacial charge transfer is central to the design of photovoltaic devices. This charge transfer is strongly dependent upon the local chemical environment at each interface. The authors report a methodol.

for the fabrication of a novel nanostructured multicomponent film, employing a dual-function supramol. organic semiconductor to allow mol.-level

control of the local chemical composition at a nanostructured inorg./organic semiconductor heterojunction. The multicomponent film comprises a lithium ion doped dual-functional hole-transporting material (Li+-DFHTM), sandwiched between a dye-sensitized nanocryst. TiO2 film and a mono-functional organic hole-transporting material (MFHTM). The DFHTM consists of a conjugated organic semiconductor with ion supporting side chains, designed to allow both electronic and ionic charge transport properties. The Li+-DFHTM layers provide a new and versatile way to control the interface electrostatics, and consequently the charge transfer, at a nanostructured dye-sensitized inorg./organic semiconductor heterojunction.

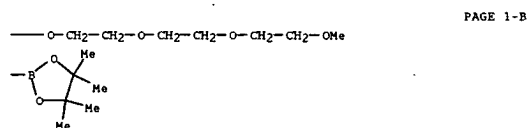
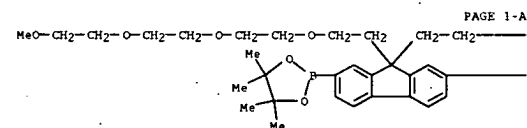
IT

RL: DEV (Device component use); PRP (Properties); PUR (Purification or recovery); SPN (Synthetic preparation); PREP (Preparation); USES (Uses) (use of ion-solvating hole-transporting polymers of interface engineering for solid-state dye-sensitized nanocryst. solar cells);

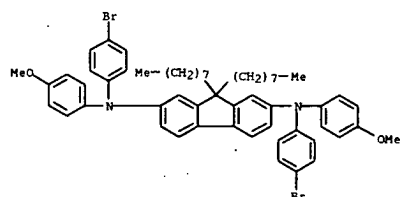
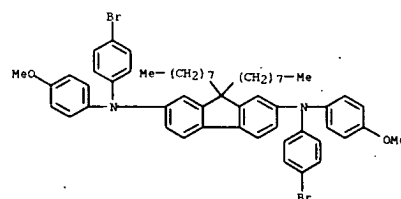
RN 771563-21-4 CAPLUS

CN 9H-Fluorene-2,7-diamine, N,N'-bis(4-bromophenyl)-N,N'-bis(4-methoxyphenyl)-9,9-dioctyl-, polymer with 2,2'-(9,9-bis(3,6,9,12-tetraoxatridec-1-yl)-9H-fluorene-2,7-diyl)bis[4,4,5,5-tetramethyl-1,3,2-dioxaborolane] (9C1) (CA INDEX NAME)

CM 1

CRN 771563-20-3
CMF C43 H68 B2 O12

CM 2

CRN 771563-19-0
CMF C55 H62 Br2 N2 O2IT 771563-19-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)(use of ion-solvating hole-transporting polymers of interface engineering for solid-state dye-sensitized nanocryst. solar cells);
RN 771563-19-0 CAPLUS
CN 9H-Fluorene-2,7-diamine, N,N'-bis(4-bromophenyl)-N,N'-bis(4-methoxyphenyl)-9,9-dioctyl- (9C1) (CA INDEX NAME)

REFERENCE COUNT: 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ACCESSION NUMBER: 2004:181887 CAPLUS

DOCUMENT NUMBER: 140:225769

TITLE: Electrophotographic photosensitive member, process cartridge and electrophotographic apparatus
 INVENTOR(S): Tanaka, Takakazu; Takaya, Itaru; Ishiduka, Yuko; Ogaki, Harunobu; Kaku, Kenichi

PATENT ASSIGNEE(S): Canon Kabushiki Kaisha, Japan
 SOURCE: Eur. Pat. Appl., 42 pp.
 CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1394617	A2	20040303	EP 2003-19487	20030828
EP 1394617	A3	20050105		
EP 1394617	B1	20061213		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2004109999	A	20040408	JP 2003-297680	20030821
US 2005100805	A1	20050512	US 2003-649679	20030828
US 6994941	B2	20060207		
CN 1495542	A	20040512	CN 2003-156121	20030829
US 2005208402	A1	20050922	US 2005-129412	20050516
PRIORITY APPLM. INFO.:			JP 2002-253631	A 20020830
			JP 2003-297680	A 20030821
			US 2003-649679	A3 20030828

OTHER SOURCE(S): MARPAT 140:225769

AB An electrophotog. photosensitive member is provided having a support and a photosensitive layer provided on the support and containing at least one

kind of charge-transporting material which has a specific structure with a mol. weight of 1,500-4,000, and is held in a proportion of from 90-100% based on the total weight of the charge-transporting material.

IT 666176-05-2

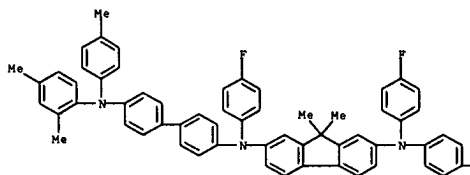
RL: TEM (Technical or engineered material use); USES (Uses)

(charge-transporting material; electrophotog. photosensitive member, process cartridge and electrophotog. apparatus containing)

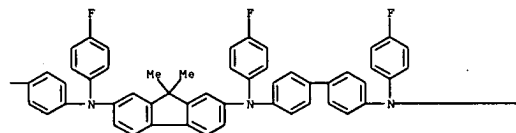
RN 666176-05-2 CAPLUS

CN 9H-Fluorene-2,7-diamine, N,N'-[1,1'-biphenyl]-4,4'-diylbis[N'-(4'-[[7-[[4'-(2,4-dimethylphenyl)amino]-1,1'-biphenyl]-4-yl]-(4-fluorophenyl)amino]-9,9-dimethyl-9H-fluorene-2-yl]-(4-fluorophenyl)amino]-[1,1'-biphenyl]-4-yl]-N,N'-bis(4-fluorophenyl)-9,9-dimethyl- (9CI) (CA INDEX NAME)

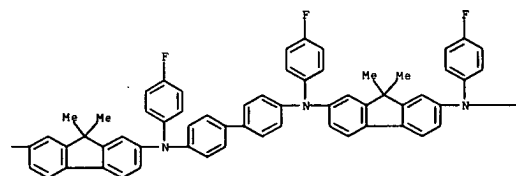
PAGE 1-A



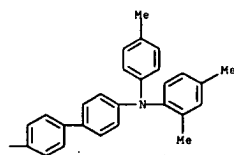
PAGE 1-B



PAGE 1-C



PAGE 1-D



ACCESSION NUMBER: 2004:172630 CAPLUS

DOCUMENT NUMBER: 141:372425

TITLE: Organic light-emitting diodes based on arylamine molecules and polymers with a fluorene core

AUTHOR(S): Domercq, Benoit; Hreha, Richard D.; Haldi, Andreas; Barlow, Stephen; George, Candace P.; Marder, Seth R.; Malagoli, Massimo; Bredas, Jean-Luc; Kippelen, Bernard

CORPORATE SOURCE: Optical Sciences Ctr., Univ. of Arizona, Tucson, AZ, 85721, USA

SOURCE: Proceedings of SPIE-The International Society for Optical Engineering (2004), 5214(Organic Light-Emitting Materials and Devices VII), 225-232

CODEN: PSISDG; ISSN: 0277-786X

PUBLISHER: SPIE-The International Society for Optical Engineering

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Soluble arylamine-based hole transporting mols. with a fluorene core and with

various ionization potentials were synthesized. The transport properties of these mols. doped into polystyrene were measured by time-of-flight expts. and compared to those of analogous comds. with a biphenyl core (TPD). Reorganization energies between the neutral mols. and their cations were calculated using d. functional theory. The effects of bond length and geometry relaxations on the overall reorganization energy in these two classes of mols. are discussed. Mols. from both classes were doped into polystyrene and used as hole-transport layers (HTLs) in multi-layer light-emitting diodes with the structure ITO/HTL/Alq3/Mg:Ag (ITO = In Sn oxide, Alq3 = tris(8-hydroxyquinolino)aluminum). The electroluminescent properties and lifetime measurements at constant current were evaluated. Significant variations in lifetime when using different substituents were observed

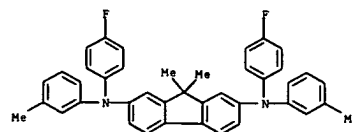
IT 677350-81-1

RL: DEV (Device component use); PRP (Properties); USES (Uses)

(organic light-emitting diodes based on arylamine mols. and polymers with fluorene core)

RN 677350-81-1 CAPLUS

CN 9H-Fluorene-2,7-diamine, N,N'-bis(4-fluorophenyl)-9,9-dimethyl-N,N'-bis(3-methylphenyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 39

THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 12 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:15356 CAPLUS

DOCUMENT NUMBER: 140:320941

TITLE: 2,7-bis(diarylamino)-9,9-dimethylfluorenes as hole-transport materials for organic light-emitting diodes

AUTHOR(S): Hreha, Richard D.; George, Candace P.; Haldi, Andreas; Domercq, Benoît; Malagoli, Massimo; Barlow, Stephen; Bradley, Jean-luc; Kippelen, Bernard; Marder, Seth R.

CORPORATE SOURCE: Department of Chemistry, University of Arizona, Tucson, AZ, 85721, USA

SOURCE: Advanced Functional Materials (2003), 13(12), 967-973

CODEN: AFMDC6; ISSN: 1616-301X

PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 140:320941

AB 2,7-Bis(p-methoxyphenyl)-N,N'-tolylamino-9,9-dimethylfluorene (1'), 2,7-bis(phenyl)-N,N'-tolylamino-9,9-dimethylfluorene (2') and 2,7-bis(p-fluorophenyl)-N,N'-tolylamino-9,9-dimethylfluorene (3') have been synthesized using the palladium-catalyzed reaction of the appropriate diarylamines with 2,7-dibromo-9,9-dimethylfluorene. These mols. have glass-transition temps. 15-20°C higher than those for their biphenyl-bridged analogs, and are 0.11-0.14 V more readily oxidized. Fluorescence spectra and fluorescence quantum yields for dimethylfluorene-bridged and biphenyl-bridged species are similar, but the peaks of the absorption spectra of 1'-3' are considerably red-shifted relative to those of their biphenyl-bridged analogs. Time-of-flight hole mobilities of 1'-3'/polystyrene blends are in a similar range to those of the biphenyl-bridged analogs. Anal. according to the disorder formalism yields parameters rather similar to those for the biphenyl species, but with somewhat lower zero-field mobility values. D. functional theory (DFT) calcs. suggest that the enforced planarization of the fluorene bridge leads to a slightly larger reorganization energy for the neutral/cation electron-exchange reaction than in the biphenyl-bridged system. Organic light-emitting diodes have been fabricated using 1'-3'/polystyrene blends as the hole-transport layer and tris(8-hydroxy quinoline)aluminum as the electron-transport layer and lumophore. Device performance shows a correlation with the ionization potential of the amine materials paralleling that seen in biphenyl-based systems, and fluorene species show similar performance to biphenyl species with comparable ionization potential.

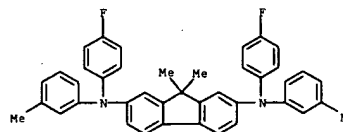
IT 677350-81-1P

RL: DEV (Device component use); PEP (Physical, engineering or chemical process); PRP (Properties); PYP (Physical process); SPN (Synthetic preparation); PREP (Preparation); PROC (Process); USES (Uses) (polystyrene doped with 2,7-bis(diarylamino)-9,9-dimethylfluorenes as hole-transport materials for organic light-emitting diodes)

RN 677350-81-1 CAPLUS

CN 9H-Fluorene-2,7-diamine, N,N'-bis(4-fluorophenyl)-9,9-dimethyl-N,N'-bis(3-methylphenyl)- (9CI) (CA INDEX NAME)

L8 ANSWER 12 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

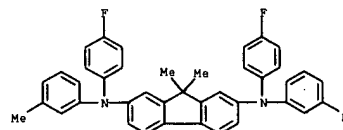


IT 677350-84-4

RL: FMU (Formation, unclassified); PRP (Properties); FORM (Formation, nonpreparative) (redox couple; 2,7-bis(diarylamino)-9,9-dimethylfluorenes as hole-transport materials for organic light-emitting diodes)

RN 677350-84-4 CAPLUS

CN 9H-Fluorene-2,7-diamine, N,N'-bis(4-fluorophenyl)-9,9-dimethyl-N,N'-bis(3-methylphenyl)-, radical ion(1+) (9CI) (CA INDEX NAME)



REFERENCE COUNT: 46

THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 13 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2003:197482 CAPLUS

DOCUMENT NUMBER: 139:371628

TITLE: Luminescent devices employing a triarylamine compound

INVENTOR(S): Senoo, Akihiro; Hashimoto, Yuichi; Ueno, Kazunori; Mashimo, Seiji; Urakawa, Shinichi

PATENT APPLICANT(S): Canon Kabushiki Kaisha, Japan

SOURCE: U.S. Pat. Appl. Publ., 37 pp., Cont.-in-part of U.S. Ser. No. 299,632.

COVEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

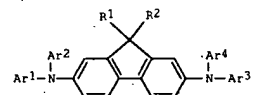
FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003207153	A1	20031106	US 2003-348990	20030123
US 6833200	B2	20041221		
US 2005025997	A1	20050203	US 2004-921918	20040820
PRIORITY APPLN. INFO.:			JP 1998-132636	A 19980428
			US 1999-299632	B2 19990427
			US 2003-348990	A3 20030123

OTHER SOURCE(S): MARPAT 139:371628

G1



AB Luminescent devices are described which comprise a pair of electrodes and a luminescent layer disposed between the electrodes and comprising a compound represented by the general formula (I) where R1 and R2 are each independently a H atom, a halogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted alkoxy group, or a substituted or unsubstituted aryl group; Ar1-4 are each a substituted or unsubstituted aryl or heterocyclic group, which may be the same or different from each other; both Ar1 and Ar3 are fused aromatic rings; Z1 of R1 and R2 is a halogen, a substituted or unsubstituted alkyl group, or a substituted or unsubstituted alkoxy group; and Z1 of R1 and R2 is not H.

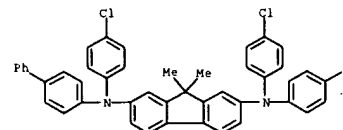
IT 248584-71-6

RL: DEV (Device component use); PRP (Properties); USES (Uses) (electroluminescent devices employing triarylamine compound)

RN 248584-71-6 CAPLUS

CN 9H-Fluorene-2,7-diamine, N,N'-bis([1,1'-biphenyl]-4-yl)-N,N'-bis(4-chlorophenyl)-9,9-dimethyl- (9CI) (CA INDEX NAME)

L8 ANSWER 13 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



REFERENCE COUNT: 39

THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 14 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2003:868627 CAPLUS

DOCUMENT NUMBER: 139:371790

TITLE: Electrophotographic photoreceptor containing charge-transporting polymer and low molecular weight substance in photosensitive layer, process cartridge, and electrophotographic apparatus

INVENTOR(S): Nakajima, Yukio; Tanaka, Takakazu; Ogaki, Harunobu

PATENT ASSIGNER(S): Canon Inc., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 24 pp.

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003316044	A	20031106	JP 2002-126263	20020426

PRIORITY APPLN. INFO.: JP 2002-126263 20020426

OTHER SOURCE(S): MARPAT 139:371790

AB The electrophotog. photoreceptor comprises a photosensitive layer formed on a support, wherein the photosensitive layer contains a charge-transporting polymer represented by [NAr13-Ar11(NAr14-Ar12)ab] (Ar11,12 = divalent group; Ar13,14 = aromatic ring, heterocyclyl; a, b = ≥ 1 integer; and a + b ≥ 5) and a low mol. weight charge-transporting substance with a mol. weight 300-600. The

electrophotog. photoreceptor exhibited resistance in scratch resistance and discharge resistance.

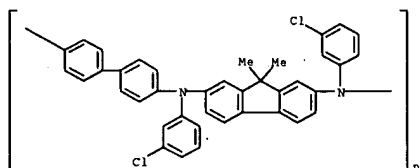
IT 622852-15-7

RL: DEV (Device component use); PRP (Properties); USES (Uses) (electrophotog. photoreceptor containing charge-transporting polymer and low. mol. weight compound in photosensitive layer)

RN

622852-15-7 CAPLUS

CN Poly[[[3-chlorophenyl]imino](9,9-dimethyl-9H-fluorene-2,7-diyl)](3-chlorophenyl)imino][1,1'-biphenyl]-4,4'-diyl] .(9Cl) (CA INDEX NAME)



=> d 18 15-28 ibib abs hitstr

L8 ANSWER 15 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2003:866623 CAPLUS
 DOCUMENT NUMBER: 139:371786
 TITLE: Electrophotographic photoreceptor in process cartridge of electrophotographic image-forming apparatus
 INVENTOR(S): Yoshimura, Kimihiro; Takagi, Shinji; Tanaka, Daisuke; Morikawa, Yosuke
 PATENT ASSIGNEE(S): Canon Inc., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 27 pp.
 CODEN: JXXXXF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

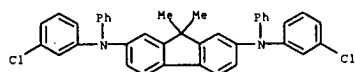
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003316035	A	20031106	JP 2002-117333	20020419
JP 3814556	B2	20060830		

PRIORITY APPLN. INFO.: JP 2002-117333 20020419

AB The title electrophotog. photoreceptor has a charge-generating layer, a charge-transporting layer containing ≥ 2 kinds of charge-transporting materials, and a protective layer containing electroconductive particles and a hardenable resin on an electroconductive support, wherein the charge generating material satisfies the equation: $0.02 < |\Delta E_{ox}| \leq 0.13$ where $|\Delta E_{ox}|$ is the difference of the maximum and min. oxidation potential of the charge-transporting materials and wherein the protective layer satisfies the equations: $1.5 \leq \text{Ac} \leq 12.0$, and $5.0 \leq \text{AL} \leq 25.0$ where Ac (atomic %) is total content of In and Sn in the surface layer and where AL (atomic %) is the total content of F and Si in the surface layer. The photoreceptor generates little ghost images.

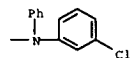
IT 145068-92-4
 RL: TEM (Technical or engineered material use); USES (Uses)
 (charge-transporting agents in electrophotog. photoreceptor)

RN 145068-92-4 CAPLUS
 CN 9H-Fluorene-2,7-diamine, N,N'-bis(3-chlorophenyl)-9,9-dimethyl-N,N'-diphenyl- (9CI) (CA INDEX NAME)

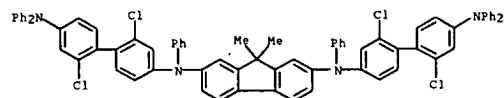


L8 ANSWER 16 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-B



RN 354987-70-5 CAPLUS
 CN 9H-Fluorene-2,7-diamine, N,N'-bis(2,2'-dichloro-4'-(diphenylamino)[1,1'-biphenyl]-4-yl)-9,9-dimethyl-N,N'-diphenyl- (9CI) (CA INDEX NAME)

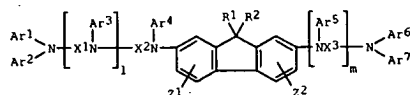


L8 ANSWER 16 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2001:603530 CAPLUS
 DOCUMENT NUMBER: 135:187795
 TITLE: New amine compound for organic electroluminescent device showing longer luminescent lifetime and excellent durability
 INVENTOR(S): Shinamura, Takehiko; Nakatsuka, Masakatsu; Ishida, Tsutomu
 PATENT ASSIGNEE(S): Mitsui Chemicals Inc., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 75 pp.
 CODEN: JXXXXF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001226331	A	20010821	JP 2000-34477	20000214
			JP 2000-34477	20000214

PRIORITY APPLN. INFO.: MARPAT 135:187795

OTHER SOURCE(S): GI

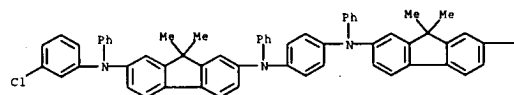


AB The new amine compound is represented by a general formula I (Ar1-7 = aryl; R1, R2 = H, alkyl, aryl, aralkyl; Z1, Z2 = H, halo, alkyl, alkoxy, aryl; X1-3 = arylene; l, m = 0, 1) and synthesized. The amine compound is suitable as a pos. hole injection transport material in an organic electroluminescent display device.

IT 354987-49-8 354987-70-5
 RL: DEV (Device component use); PRP (Properties); USES (Uses)
 (amine compound for organic electroluminescent device showing longer luminescent lifetime and excellent durability)

RN 354987-49-8 CAPLUS
 CN 9H-Fluorene-2,7-diamine, N,N'-1,4-phenylenebis[N'-(3-chlorophenyl)-9,9-dimethyl-N,N'-diphenyl- (9CI) (CA INDEX NAME)

PAGE 1-A



L8 ANSWER 17 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1999:708486 CAPLUS
 DOCUMENT NUMBER: 131:329660
 TITLE: Triarylamine compound and luminescent device
 INVENTOR(S): Senoo, Akihiko; Ueno, Kazunori; Urakawa, Shinichi; Hashimoto, Yuichi; Mashimo, Seiji
 PATENT ASSIGNEE(S): Canon Kabushiki Kaisha, Japan
 SOURCE: Eur. Pat. Appl., 46 pp.
 CODEN: EPXXXX
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

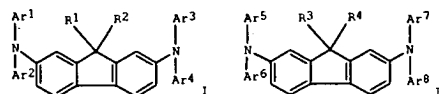
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 953624	A1	19991103	EP 1999-303199	19990426
EP 953624	B1	20040204		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO

JP 2000016973 A 20000118 JP 1999-113535 19990421
 JP 1998-132636 A 19980428

PRIORITY APPLN. INFO.: MARPAT 131:329660

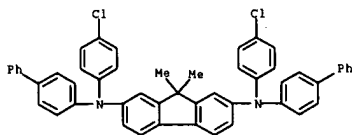
OTHER SOURCE(S): GI



AB Triarylamine compds. are described by the general formula I or II (R1 and R2 = independently selected H, halo, (un)substituted alkyl, (un)substituted alkoxy, or (un)substituted aryl groups; Ar1, Ar2, Ar3, and Ar4 = independently selected (un)substituted aryl or heterocyclic groups; and ≥ 1 of Ar1, Ar2, Ar3, and Ar4 is a fused aromatic ring; R3 and R4 = independently selected H, halo, (un)substituted alkyl, (un)substituted alkoxy, or (un)substituted aryl groups; Ar5, Ar6, Ar7, and Ar8 = independently selected (un)substituted aryl or heterocyclic groups; and ≥ 1 of Ar5, Ar6, Ar7, and Ar8 is a π -conjugated aromatic hydrocarbon). Electroluminescent devices using the compds. as a hole transport material or a luminescent material are also described.

IT 248584-71-6
 RL: DEV (Device component use); USES (Uses)
 (triarylamine derivs. and electroluminescent devices using them)

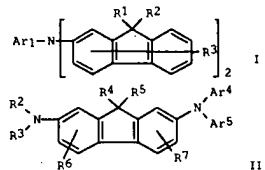
RN 248584-71-6 CAPLUS
 CN 9H-Fluorene-2,7-diamine, N,N'-bis([1,1'-biphenyl]-4-yl)-N,N'-bis(4-chlorophenyl)-9,9-dimethyl- (9CI) (CA INDEX NAME)

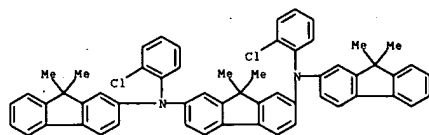


REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

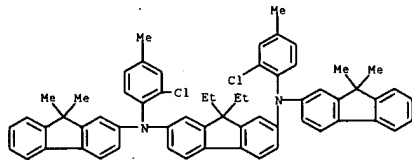
ACCESSION NUMBER: 1999:427040 CAPLUS
DOCUMENT NUMBER: 131:122912
TITLE: Electrophotographic photoreceptor and process cartridge and electrophotographic apparatus including same
INVENTOR(S): Nakata, Koichi; Tanaka, Takakazu; Kikuchi, Norihiro; Kunieda, Mitsuhiro; Kanamaru, Tetsuo
PATENT ASSIGNEE(S): Canon K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 17 pp.
CODEN: JKOXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11184119	A	19990709	JP 1997-363743	19971217
PRIORITY APPLN. INFO.:			JP 1997-363743	19971217
OTHER SOURCE(S):		MARPAT 131:122912		
GI				



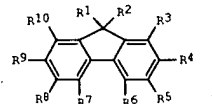


RN 216454-03-4 CAPLUS
CN 9H-Fluorene-2,7-diamine, N,N'-bis(2-chloro-4-methylphenyl)-N,N'-bis(9,9-dimethyl-9H-fluorene-2-yl)-9,9-dimethyl- (9CI) (CA INDEX NAME)



ACCESSION NUMBER: 1998:154828 CAPLUS
DOCUMENT NUMBER: 128:198616
TITLE: Electrophotographic photosensitive member
INVENTOR(S): Nakata, Kouichi; Kikuchi, Toshihiro; Suzuki, Koichi; Nakamura, Kazushige; Kanemaru, Tetsuro
PATENT ASSIGNEE(S): Canon K. K., Japan
SOURCE: Eur. Pat. Appl., 100 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

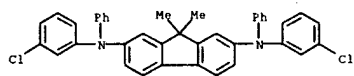
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 823669	A1	19980211	EP 1997-306021	19970807
EP 823669	B1	20010314		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 10104861	A	19980424	JP 1997-207932	19970801
JP 10111577	A	19980428	JP 1997-207931	19970801
US 5932383	A	19990803	US 1997-908170	19970807
PRIORITY APPLN. INFO.: JP 1996-209501 A 19960808				
OTHER SOURCE(S): MARPAT 128:198616				
GI				



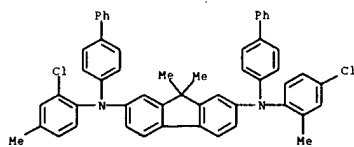
AB An electrophotog. photosensitive member is constituted by a support and a photosensitive layer disposed on the support. The photosensitive layer comprises a fluorene compound represented by the formula I [R1, R2 = (substituted) alkyl, (substituted) aryl, (substituted) aralkyl, or R1 and R2 linking together to form a ring; R3-10 = H, halogen, nitro, (substituted) alkyl, (substituted) diarylamino, (substituted) aryl, (substituted) aralkyl, or 2 of R3-10 being (substituted) diarylamino] and an arylamine compound represented by the formula NA1A2A3 [A1-3 = (substituted) aryl or (substituted) heterocyclyl] or a stilbene compound represented by the formula A4A5N[CH=C(R11)]nR12 [A4, A5 = (substituted) aryl or (substituted) heterocyclyl; X = (substituted) arylene or divalent (substituted) heterocyclyl; R11, R12 = H, (substituted) alkyl, (substituted) aryl, (substituted) heterocyclyl, or R11 and R12 linking together to form a ring; n = 1 or 2] as charge-transporting compds. The combination of such compds. is effective in improving resistances to abrasion, crack, and crystallization of the photosensitive layer.

IT 145068-92-4 203513-59-1
RL: DEV (Device component use); TEM (Technical or engineered material use); USES (Uses)
(electrophotog. photosensitive layers containing arylamine or stilbene)

RN 145068-92-4 CAPLUS
CN 9H-Fluorene-2,7-diamine, N,N'-bis(3-chlorophenyl)-9,9-dimethyl-N,N'-diphenyl- (9CI) (CA INDEX NAME)



RN 203513-59-1 CAPLUS
CN 9H-Fluorene-2,7-diamine, N,N'-bis([1,1'-biphenyl]-4-yl)-N-(2-chloro-4-methylphenyl)-N'-(4-chloro-2-methylphenyl)-9,9-dimethyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

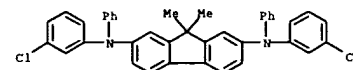
ACCESSION NUMBER: 1997:394201 CAPLUS
DOCUMENT NUMBER: 127:5191
TITLE: Preparation of silicon-containing tertiary aromatic amines as charge transport compounds
INVENTOR(S): Kushibiki, Nobuo; Takeuchi, Kikuko
PATENT ASSIGNEE(S): Dow Corning Asia, Ltd., Japan
SOURCE: Eur. Pat. Appl., 31 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 771806	A1	19970507	EP 1996-117733	19961106
EP 771806	B1	20020227		
R: BE, DE, FR, GB				
JP 09127710	A	19970516	JP 1995-287634	19951106
AU 9670593	A	19970515	AU 1996-70593	19961104
AU 708183	B2	19990729		
US 5824443	A	19981020	US 1996-743265	19961104
CN 1156850	A	19970813	CN 1996-121687	19961106
PRIORITY APPLN. INFO.: JP 1995-287634 A 19951106				

AB A Si-containing charge transporting material A[R1SiR23-nQ]p wherein A denotes an organic group derived from a charge transporting compound having an ionization potential within the range of 4.5-6.2 eV, which is a tertiary amine having a plurality of aromatic groups, R1 is an alkylene group of 1-18 C atoms, R2 is a monovalent hydrocarbon group or a halogen-substituted monovalent hydrocarbon group of 1-15 C atoms, Q is a hydrolyzable group; and n and p are each integers from 1-3. E.g., 4-[(EtO)3SiCH2CH2]C6H4NPh2 is prepared in 92% yield from the hydrosilylation of (4-vinylphenyl)diphenylamine (1) with (EtO)3SiH and tris(tetramethyldivinylsiloxane)platinum catalyst. 1 was prepared in 84% yield from a Wittig reaction (NaH/Me4PBr/1,2-dimethoxyethane) of 4-(Ph2)C6H4CHO (prepared from Ph3N using P(O)Cl3/DMF reagent in 81% yield).

IT 145068-92-4
RL: PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process)
(oxidation and ionization potentials of)

RN 145068-92-4 CAPLUS
CN 9H-Fluorene-2,7-diamine, N,N'-bis(3-chlorophenyl)-9,9-dimethyl-N,N'-diphenyl- (9CI) (CA INDEX NAME)



L8 ANSWER 22 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1997:394197 CAPLUS
DOCUMENT NUMBER: 127:5190
TITLE: Method of manufacturing a silicon-containing charge-transporting material
INVENTOR(S): Kushibiki, Nobuo; Takeuchi, Tikuko
PATENT ASSIGNEE(S): Dow Corning Asia, Ltd., Japan
SOURCE: Eur. Pat. Appl., 30 pp.
CODEN: EPAXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

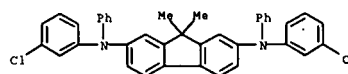
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 771807	A1	19970507	EP 1996-117734	19961106
EP 771807	B1	20020227		
JP 09124942	A	19970513	JP 1995-287644	19951106
JP 3614222	B2	20050126		
AU 9670594	A	19970515	AU 1996-70594	19961104
AU 707231	B2	19990708		
US 5688961	A	19971118	US 1996-740738	19961104
CN 1150591	A	19970528	CN 1996-123304	19961106
CN 1067398	B	20010620		

PRIORITY APPLN. INFO.:
AB A method is disclosed of manufacturing charge transporting materials which impart a charge transporting property to a polysiloxane resin, and which materials are soluble in the resin. The charge transporting material is an aromatic substituted tertiary amine with a plurality of aromatic groups, and a silyl group introduced via a hydrocarbon group, into at least one of the aromatic groups. The method uses an unsatd. aliphatic group bonded to an aromatic group which makes up the Si-type charge transporting compound, or employs a newly bonded unsatd. aliphatic group which is bonded to a silane in which the substituent for Si is H atom or a hydrolyzable group. This is conducted in the presence of a Pt compound as catalyst by hydrosilylation. The Si-type charge transporting material is then brought into contact with an adsorbent for the Pt compound, causing the Pt compound to be adsorbed on to the adsorbent. The Pt compound is removed along with the adsorbent, so that the concentration of residual Pt compound is <10 ppm. E.g., (4-vinylphenyl)diphenylamine reacts with (EtO)3SiH in toluene in the presence of tris(tetramethyldivinylsiloxane)diplatinum catalyst to give 4-((EtO)3SiCH2CH2)C6H4NPh2.

IT 145068-92-4
RI: PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process)
(oxidation and ionization potential of)

RN 145068-92-4 CAPLUS
CN 9H-Fluorene-2,7-diamine, N,N'-bis(3-chlorophenyl)-9,9-dimethyl-N,N'-diphenyl- (9CI) (CA INDEX NAME)

L8 ANSWER 22 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



L8 ANSWER 23 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1995:662912 CAPLUS
DOCUMENT NUMBER: 123:270709
TITLE: Electrophotographic photosensitive member and electrophotographic apparatus, device unit and facsimile machine using the same
INVENTOR(S): Maruyama, Akio; Kikuchi, Toshio; Anamiya, Shoji; Nagahara, Shin; Aoki, Katsumi
PATENT ASSIGNEE(S): Canon K. K., Japan
SOURCE: U.S., 43 pp. Cont.-in-part of U.S. Ser. No. 852,720, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

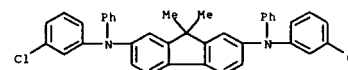
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5422210	A	19950606	US 1992-968465	19921029
JP 05100464	A	19930423	JP 1992-62306	19920318
JP 2584930	B2	19970226		
PRIORITY APPLN. INFO.:			JP 1991-77290	A 19910318
			JP 1991-77291	A 19910318
			JP 1991-77292	A 19910318
			US 1992-852720	B2 19920317
			JP 1992-62306	A 19920318

OTHER SOURCE(S): MARPAT 123:270709
AB An electrophotog. photosensitive member comprises a conductive support, a photosensitive layer and a protective layer, the protective layer containing resin formed by hardening a light-setting type acrylic monomer, and the photosensitive layer containing 21 compound selected from the group consisting of (A), (B) and (C) below: (A) styryl compds. (Ar1)(Ar2)N-Ar3-(CH2C(R2))n-R1 (m.p. <135°) [Ar1 and Ar2 are aromatic ring groups, Ar3 is a bivalent aromatic ring group or a heterocyclic group, R1 is an alkyl group or an aromatic ring group, R2 is a atom, an alkyl group or an aromatic ring group, and n is 1 or 2, R1 and R2 possibly linking to form a ring when n = 1]; (B) triarylamine compound having a structure expressed by the following formula Ar4Ar5Ar6 (m.p. <150°) [Ar4, Ar5 and Ar6 = aromatic ring group or a heterocyclic group]; (C) hydrazone compds. A-[CR3:NR4R5]m (m.p. <155°) [R3 is a H atom or an alkyl group, R4 and R5 are alkyl groups, aralkyl groups or aromatic ring groups, m is 1 or 2, A is an aromatic ring group, a heterocyclic group or -CH2C(R6)R7 (R6 and R7 are H atoms, aromatic ring groups or heterocyclic groups, but will never be H atoms at the same time)]. The photosensitive member suppresses the occurrence of cracks during forming of the protective layer, has high durability, and is free from any image defects.

IT 145068-92-4
RI: DEV (Device component use); TEM (Technical or engineered material use); USES (Uses)
(charge transport agent for electrophotog. photoconductor)

RN 145068-92-4 CAPLUS
CN 9H-Fluorene-2,7-diamine, N,N'-bis(3-chlorophenyl)-9,9-dimethyl-N,N'-diphenyl- (9CI) (CA INDEX NAME)

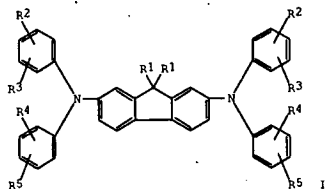
L8 ANSWER 23 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



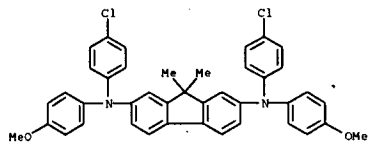
L8 ANSWER 24 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1994:90352 CAPLUS
 DOCUMENT NUMBER: 120:90352
 TITLE: Organic electroluminescent device
 INVENTOR(S): Takuma, Hirotsuke
 PATENT ASSIGNEE(S): Mitsui Toatsu Chemicals, Inc., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
 CODEN: JKXXAP
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05025473	A	19930202	JP 1991-181161	19910722
JP 3065130	B2	20000712		

PRIORITY APPLN. INFO.: JP 1991-181161 19910722
 OTHER SOURCE(S): MARPAT 120:90352
 GI



AB The device comprises a hole-transporting layer consisting of a fluorene amine derivative I (R1 = alkyl, aralkyl; R2-5 = H, alkyl, alkoxy, halo).
 The device has a long-life stability with low threshold driver inputs.
 IT 152008-58-7 152008-59-8
 RL: FRP (Properties)
 (hole transporter, in electroluminescent devices)
 RN 152008-58-7 CAPLUS
 CN 9H-Fluorene-2,7-diamine, N,N'-bis(4-chlorophenyl)-N,N'-bis(4-methoxyphenyl)-9,9-dimethyl- (9CI) (CA INDEX NAME)

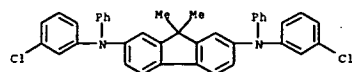


L8 ANSWER 25 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1993:482826 CAPLUS
 DOCUMENT NUMBER: 119:82826
 TITLE: Electrophotographic photosensitive member and electrophotographic apparatus, device unit and facsimile machine using the same
 INVENTOR(S): Maruyama, Akio; Kikuchi, Toshihiro; Amamiya, Shoji; Nagahara, Shin; Aoki, Katsumi; Tsuji, Haruyuki
 PATENT ASSIGNEE(S): Canon K. K., Japan
 SOURCE: Eur. Pat. Appl., 67 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

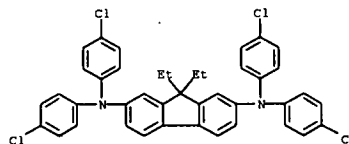
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 504794	A1	19920923	EP 1992-104575	19920317
EP 504794	B1	19980603		

PRIORITY APPLN. INFO.: JP 1991-77290 A 19910318
 JP 1991-77291 A 19910318
 JP 1991-77292 A 19910318

OTHER SOURCE(S): MARPAT 119:82826
 AB The title material comprises a conductive support, a photosensitive layer and a protective layer, the protective layer containing resin formed by hardening a light-setting type acrylic monomer, and the photosensitive layer containing a) compound selected from the group consisting of (A), (B) and (C) below: (A) styryl compds. having a structure Ar1Ar2NAr3(CH:CR2)nR1 and a m.p. $\leq 135^\circ$. [Ar1 and Ar2 are aromatic ring groups, Ar3 is a bivalent aromatic ring group or a bivalent heterocyclic group, R1 is an alkyl group or an aromatic ring group, R2 is a atom, an alkyl group or an aromatic ring group, and n is 1 or 2, R1 and R2 possibly linking to form a ring when n = 1]; (B) triarylamine compds. having a structure Ar4Ar5Ar6 and m.p. $\leq 150^\circ$ [Ar4, Ar5 and Ar6 are each an aromatic ring group or a heterocyclic group]; (C) hydrazone compds. having a structure A[C(R3)N(R4)R5]m [R3 is a H atom or an alkyl group, R4 and R5 are alkyl groups, aralkyl groups or aromatic ring groups, m is 1 or 2, A is an aromatic ring group, a heterocyclic group, or -CH:CR6R7 (R6 and R7 are H atoms, aromatic ring groups or heterocyclic groups, but will never be h atoms at the same time). The photosensitive member suppresses the occurrence of cracks during forming of the protective layer, has high durability, and is free from any image defects.
 IT 145068-92-4
 RL: USES (Uses)
 (electrophotog. plate with protective layer containing, for crack reduction)
 RN 145068-92-4 CAPLUS
 CN 9H-Fluorene-2,7-diamine, N,N'-bis(3-chlorophenyl)-9,9-dimethyl-N,N'-diphenyl- (9CI) (CA INDEX NAME)



L8 ANSWER 24 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
 RN 152008-59-8 CAPLUS
 CN 9H-Fluorene-2,7-diamine, N,N',N'-tetrakis(4-chlorophenyl)-9,9-diethyl- (9CI) (CA INDEX NAME)

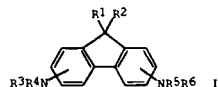


L8 ANSWER 25 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

L8 ANSWER 26 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1993:49248 CAPLUS
 DOCUMENT NUMBER: 118:49248
 TITLE: Electrophotographic photoreceptor using oxytitanium phthalocyanine and fluorene compound
 INVENTOR(S): Kikuchi, Norihito; Tanaka, Takakazu; Senoo, Akihiro
 PATENT ASSIGNEE(S): Canon K. K., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 23 pp.
 CODEN: JQXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

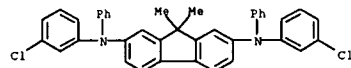
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04159557	A	19920602	JP 1990-286397	19901023
PRIORITY APPLN. INFO.: JP 1990-286397 19901023				

GI



AB In the electrophotog. photoreceptor with a photosensitive layer coated on a support, the photosensitive layer contains crystal oxytitanium phthalocyanine having strong peaks in Bragg angle 2θ at $0.2^\circ = 9.0$, 14.2 , 23.9 , and 27.1° in x-ray diffraction spectrum using CuK α , and fluorene compound I [R1-2' = H, (substituted) alkyl, (substituted) aralkyl, (substituted) aryl; R3-6 = (substituted) aryl]. The photoreceptor shows stable charging property and high sensitivity to longer wave length such as laser diode.

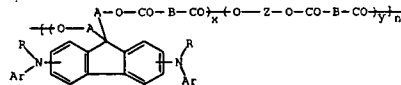
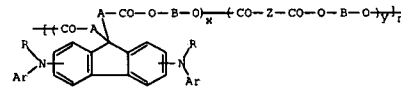
IT 145068-92-4
 RL: USES (Uses)
 (charge-transporting agent, electrophotog. photoreceptor using)
 RN 145068-92-4 CAPLUS
 CN 9H-Fluorene-2,7-diamine, N,N'-bis(3-chlorophenyl)-9,9-dimethyl-N,N'-diphenyl- (9CI) (CA INDEX NAME)



L8 ANSWER 27 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1992:72244 CAPLUS
 DOCUMENT NUMBER: 116:72244
 TITLE: Photoconductive imaging members with fluorene polyester hole transporting layers
 INVENTOR(S): Ong, Beng S.; Baranyi, Giuseppe; Alexandru, Lupu
 PATENT ASSIGNEE(S): Xerox Corp., USA
 SOURCE: U.S., 15 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5034296	A	19910723	US 1989-332655	19890403
PRIORITY APPLN. INFO.: US 1989-332655 19890403				

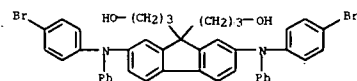
GI



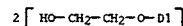
AB A layered photoresponsive imaging member is described comprised of a photogenerating layer, and in contact therewith a hole transporting layer comprised of fluorene charge transport polyesters: I and II [A, B, Z = bifunctional groups; R = alkyl or aryl group; Ar = aryl; x and y are mole fractional nos.; $x + y = 1$ and n represents the number of repeating segments]. A photoconductor containing the above compound has improved

cyclic stability and elec. properties.
 IT 137891-76-0
 RL: USES (Uses)
 (as charge-transporting agent in photoconductor)
 RN 137891-76-0 CAPLUS
 CN Decanedioic acid, polymer with 2,7-bis[(4-bromophenyl)phenylamino]-9H-fluorene-9,9-dipropanol and 2,2'-(phenylenebis(oxy))bis[ethanol] (9CI) (CA INDEX NAME)
 CH 1
 CRN 137891-75-9
 CMF C43 H38 Br2 N2 O2

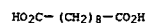
L8 ANSWER 27 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



CH 2
 CRN 59472-36-5
 CMF C10 H14 O4
 CCI IDS



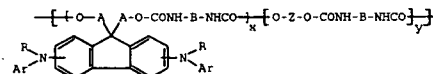
CH 3
 CRN 111-20-6
 CMF C10 H18 O4



L8 ANSWER 28 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1991:666750 CAPLUS
 DOCUMENT NUMBER: 115:266750
 TITLE: Photoconductive imaging members with polyurethane hole transporting layers
 INVENTOR(S): Ong, Beng S.; Murti, Dasarao K.; Alexandru, Lupu
 PATENT ASSIGNEE(S): Xerox Corp., USA
 SOURCE: U.S., 15 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

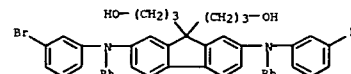
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4983482	A	19910108	US 1989-332650	19890403
PRIORITY APPLN. INFO.: US 1989-332650 19890403				

GI



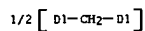
AB A layered photoresponsive imaging member is described comprising a photogenerating layer, and in contact therewith a hole transporting layer comprised of charge transport polyurethanes I [A,B,Z group of bifunctional linkages; R = alkyl or aryl; Ar = aryl; x and y represent the mole fraction nos. of the polyurethane structural composition units, subject to the provision that $x > 0$ and $x + y = 1$; and n represents the number of repeating segments]. An electrostatic imaging method using the above polymethanes is also described. The material is useful in laser scanning imaging.

IT 137222-41-4 137222-89-0 137304-92-8
 RL: USES (Uses)
 (charge-transporting agent, in photoconductor)
 RN 137222-41-4 CAPLUS
 CN 9H-Fluorene-9,9-dipropanol, 2,7-bis[(3-bromophenyl)phenylamino]-, polymer with 1,6-hexanediol and 1,1'-methylenebis(isocyanatobenzene) (9CI) (CA INDEX NAME)
 CH 1
 CRN 137222-40-3
 CMF C43 H38 Br2 N2 O2



CH 2

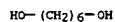
CRN 26447-40-5
CMF C15 H10 N2 O2
CCI IDS



D1-NCO

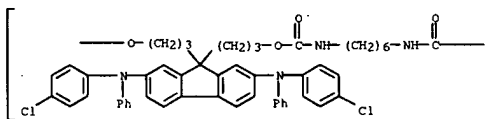
CH 3

CRN 629-11-8
CMF C6 H14 O2



RN 137222-89-0 CAPLUS
CN Poly[oxy-1,3-propanediyl[2,7-bis[(4-chlorophenyl)phenylamino]-9H-fluorene-9-ylidene]-1,3-propanediylloxycarbonylimino-1,6-hexanediyliminocarbonyl]
(9CI) (CA INDEX NAME)

PAGE 1-A

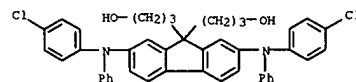


PAGE 1-B

RN 137304-92-8 CAPLUS
CN 9H-Fluorene-9,9-dipropanol, 2,7-bis[(4-chlorophenyl)phenylamino]-, polymer with 1,6-diisocyanatohexane (9CI) (CA INDEX NAME)

CH 1

CRN 137304-91-7
CMF C43 H38 Cl2 N2 O2



CH 2

CRN 822-06-0
CMF C8 H12 N2 O2

